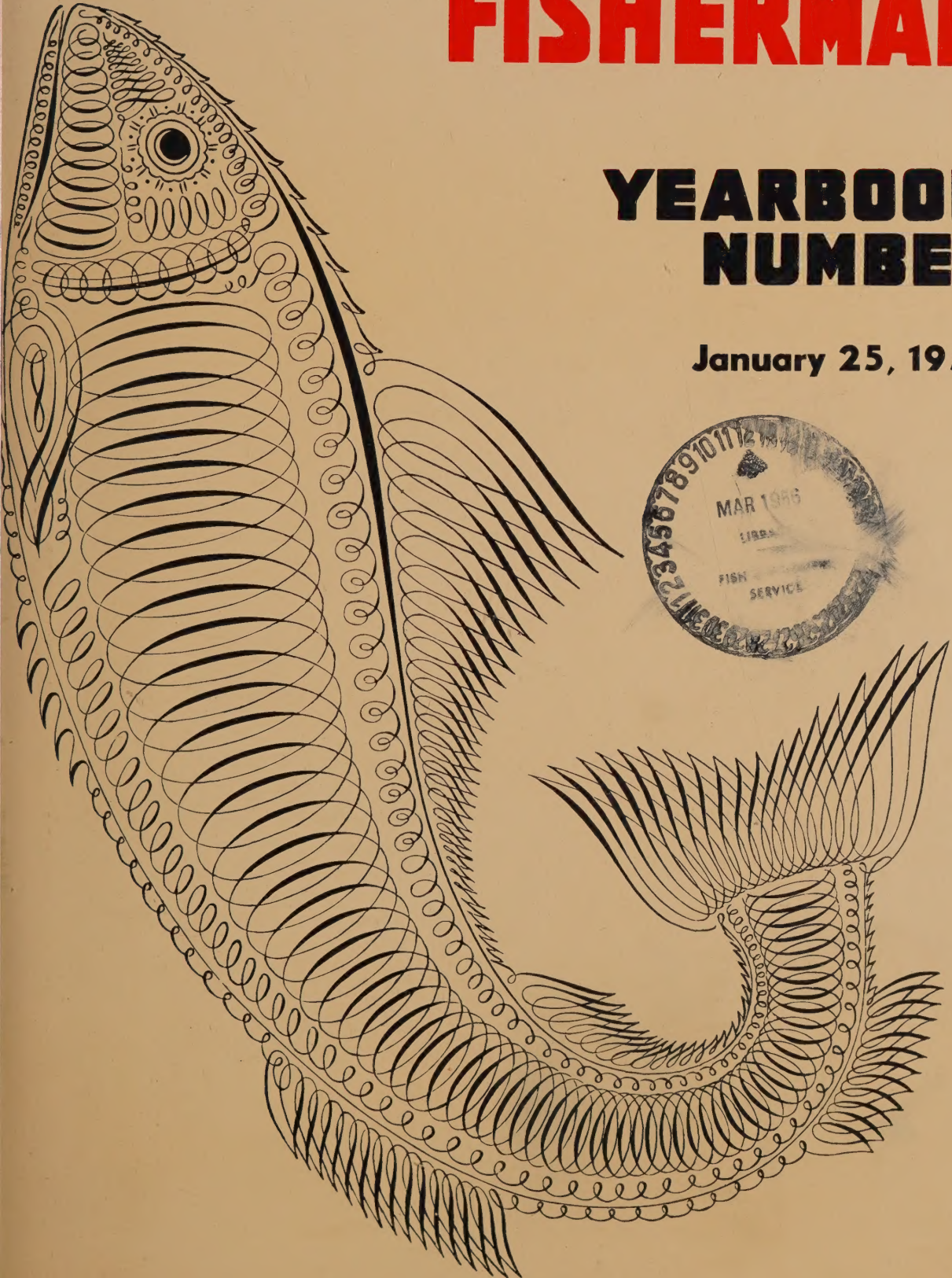


P. 121

PACIFIC FISHERMAN

YEARBOOK NUMBER

January 25, 1956



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PACIFIC FISHERMAN

YEARBOOK NUMBER

1956

January 25, 1956

Volume 54, No. 2

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SUBSCRIPTION RATES: U. S. and Canada—one year \$3.00; two years \$5.00; three years \$7.00. Other countries—one year \$4.00; two years \$7.00.

CHANGE OF ADDRESS: Please send notice of change of address to 121 Second St., San Francisco 5, Calif., as early as possible and include both old and new addresses, plus zone number at new address.

ADVERTISING: Complete plates only should be sent to Pacific Fisherman, 235 N. W. Park Ave., Portland 9, Ore. . . . Advertising copy and cuts, instructions and insertion orders should be sent to the Seattle office.

PACIFIC FISHERMAN (with which is combined West Coast Fisheries). Published monthly except January when publication is semi-monthly, by Miller Freeman Publications, at 534 S. W. Third Ave., Portland 4, Ore. Entered as second class matter at the postoffice at Portland, Ore., under Act of March 3, 1879. Postmaster, please send Notice 3579 to PACIFIC FISHERMAN, 121 Second St., San Francisco 5, California.



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PUBLICATION



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The Cover

• Elegant fish on the cover of this Yearbook Number is a classic example of calligraphy, elaborate penmanship, and was produced by some anonymous artist about 1800.

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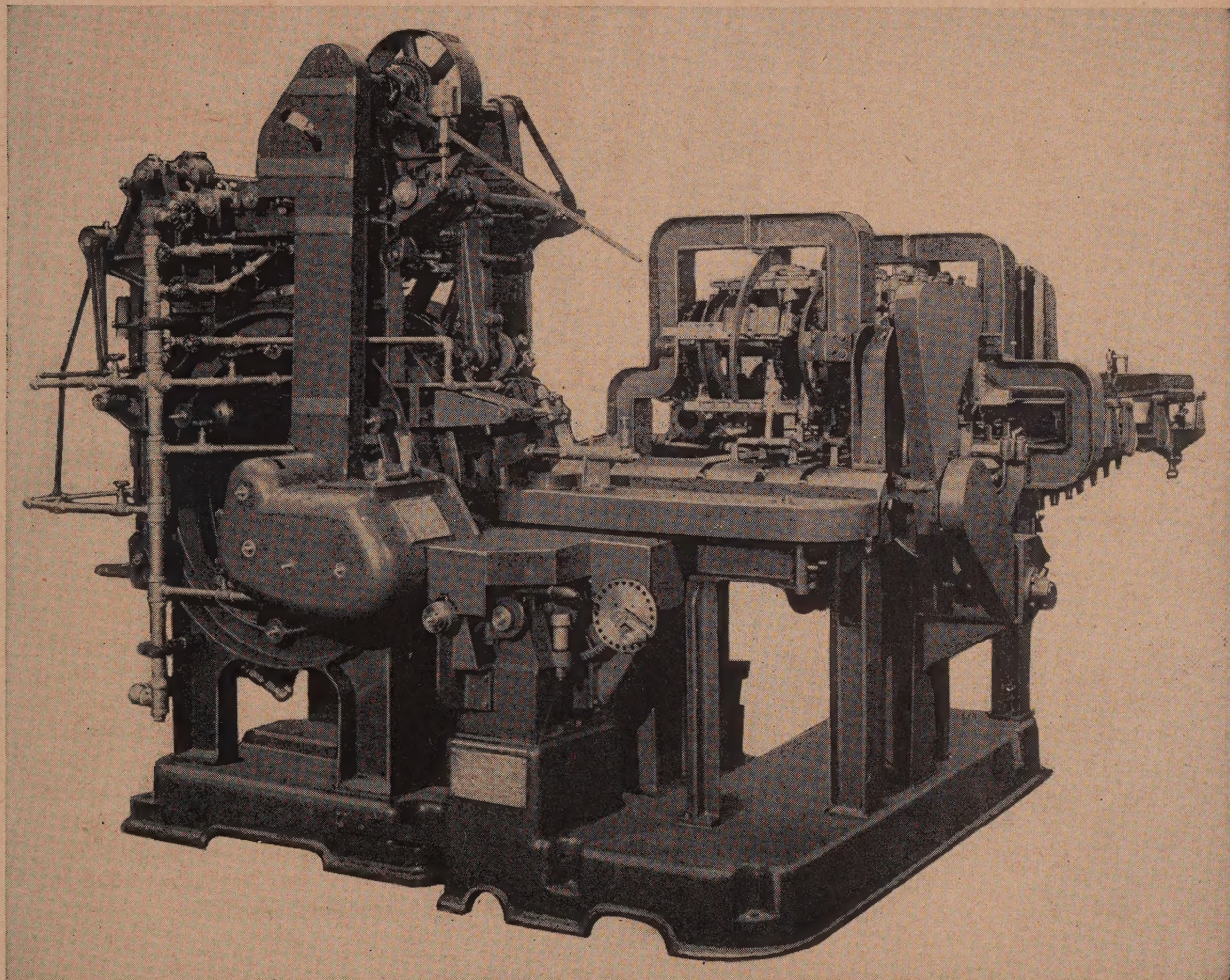
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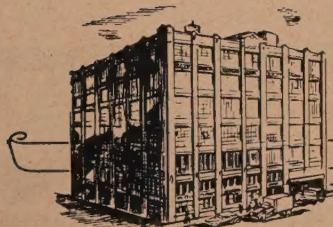


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- A feature report, by an outstanding food technologist, on major advances in food processing equipment and supplies.
- Pictures and brief descriptions of the 50 outstanding developments in this field.
- A check-list of information on new equipment and supplies, coded for easy check-off by readers desiring data.
- A Buyers Guide of equipment and supply manufacturers selling western food processors, arranged alphabetically in six sections, with company name, main office, and addresses of western sales and service outlets.

In addition, the "Yearbook Number" will continue to carry the features which have long made it outstanding as the daily reference of western packers—complete statistics on crops, packs and shipments—thorough reviews of major commodities—practical and technical production articles—lists of packers, brokers, industry associations.

The combination of the top-quality material previously provided and the new BLUE RIBBON EQUIPMENT REVIEW will make the Yearbook the *Number One* reference volume in the food processing field and the outstanding advertising medium. In planning your 1956 sales promotion program, be sure to include a suitable appropriation for a strong advertising message in the 1956 WESTERN CANNER AND PACKER Yearbook Number. Regular rates apply.

And remember, the Yearbook is the volume in which your customers—the western food processors—also advertise. There could be no better assurance of active reader interest.

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of

WESTERN CANNER & PACKER

Published May 25, 1956

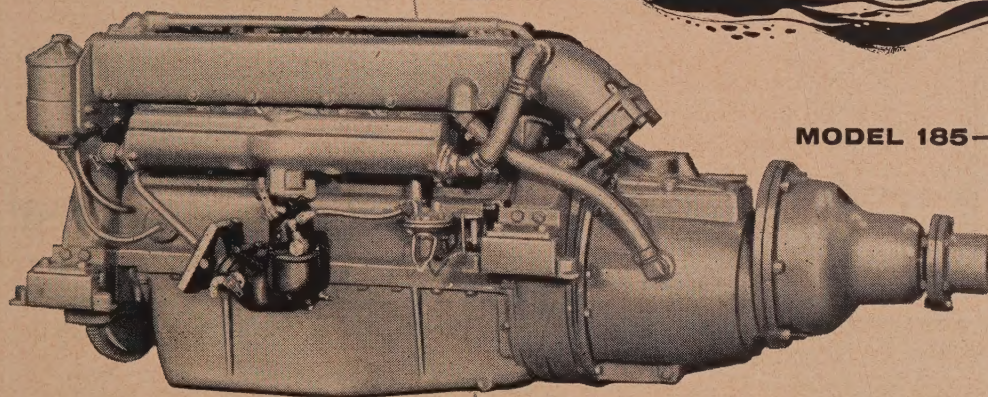
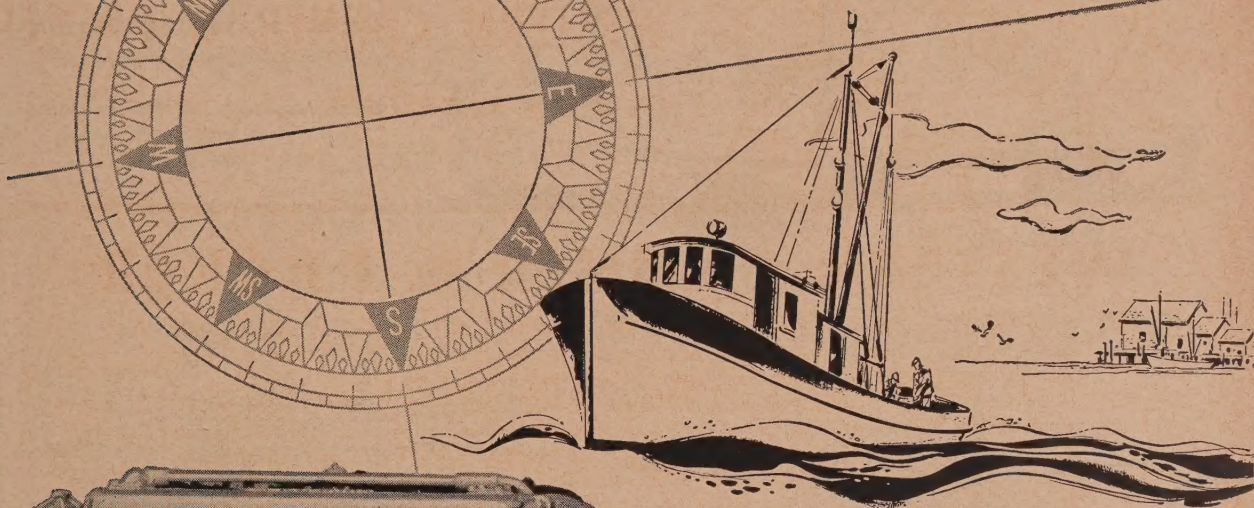
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	Cyls.	HP	RPM	Displ.
Light Four—69	4	16	1800	69
Sea Scout 91	4	25	2000	91
Four—45	4	45	3600	91
Four—112	4	31	2200	112
Model 620	4	60	3200	140
Four—162	4	42	1800	162
Model 70	4	70	3400	162
Four—75	4	75	3600	162
Model 100	6	100	3400	226
Model 110	6	110	3600	226

on the big high-output "sixes" providing excellent performance at continuous low speeds:

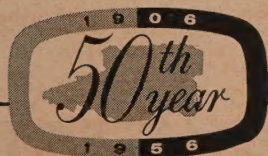
	Cyls.	HP	RPM	Displ.
Six—112	6	115	3600	226
Model 115	6	115	3400	244
Model 120	6	120	3600	244
Model 135	6	135	3600	244
Model 150	6	150	3400	330
Model 165	6	165	3400	363
Model 175	6	175	3400	363
Model 185	6	185	3400	427
Model 200	6	200	3400	427

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Four—D157	4	30	1800	157
Four—D260	4	50	1800	260
Six—D427	6	100	2200	427
Six—D572	6	135	2200	572

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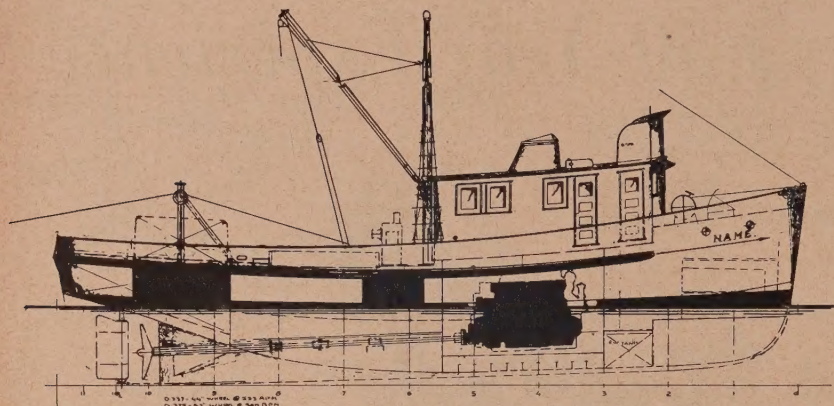
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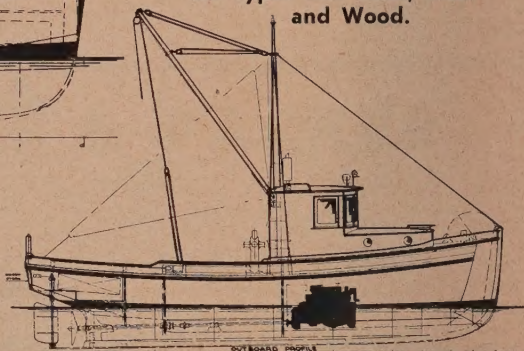
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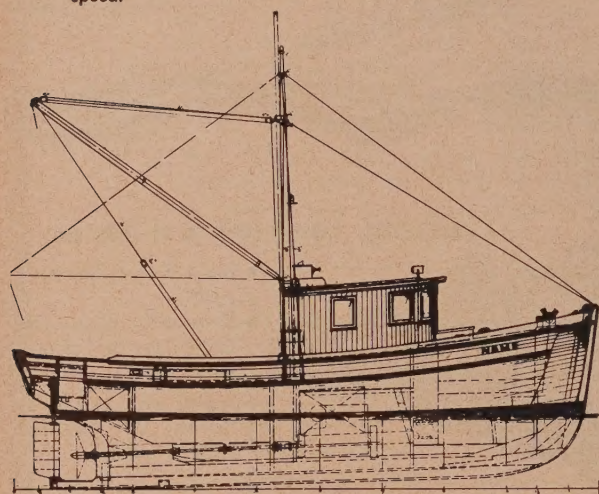
(Above) H. C. Hanson-designed 57'-58' x 16' 6" x 8' vee-bottom steel dragger and seiner. Well suited for shrimp trawling. Capable of good speed.

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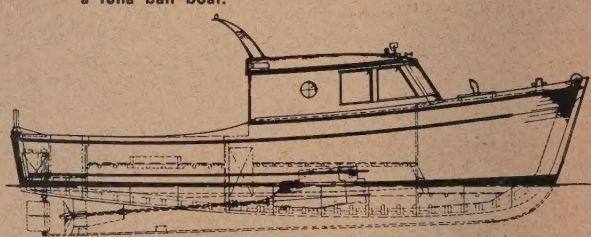
**Plans Available of Proven Boats
All Types and Sizes, Steel
and Wood.**



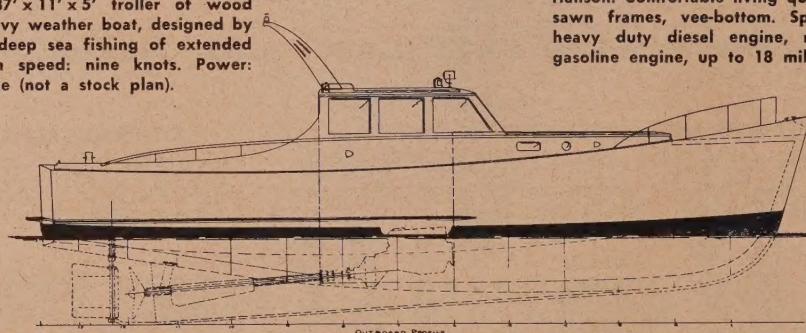
(Above) This 32' x 9' x 4' fishing vessel was designed for the Korean fisheries by H. C. Hanson. Used for long lining, particularly for shark, and for gillnetting. Suitable also as a tuna bait boat.



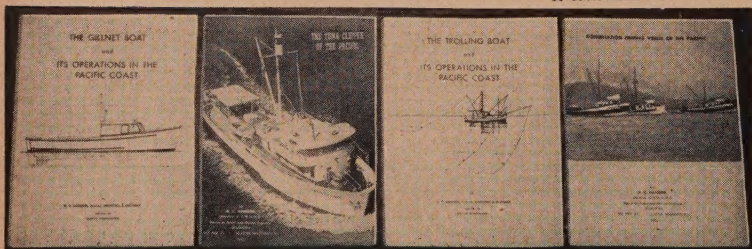
(Above) Modern 37' x 11' x 5' troller of wood construction. A heavy weather boat, designed by H. C. Hanson for deep sea fishing of extended duration. Maximum speed: nine knots. Power: 40-hp. diesel engine (not a stock plan).



(Above) Stylish 36' x 11' 6" x 4' 10" Gillnet-Cruiser, designed for salmon trolling and gillnetting by H. C. Hanson. Comfortable living quarters. Wood construction, sawn frames, vee-bottom. Speed: With 30 to 40-hp. heavy duty diesel engine, nine to ten knots; with gasoline engine, up to 18 miles or more.



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H. C. HANSON, NAVAL ARCHITECT

102 COLMAN FERRY TERMINAL

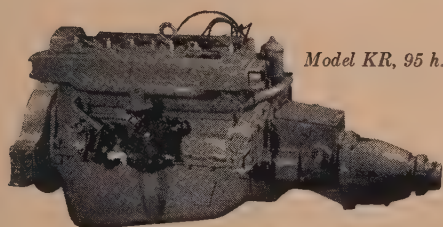
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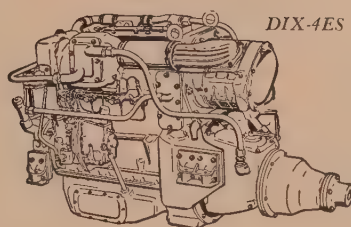
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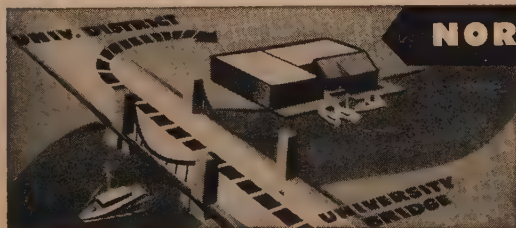
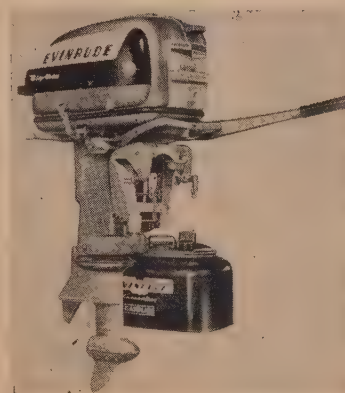


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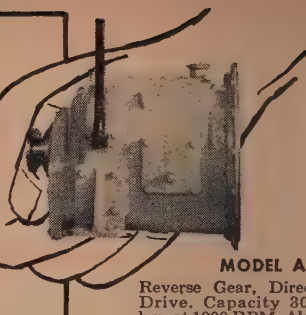


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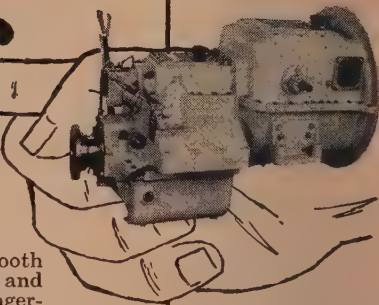
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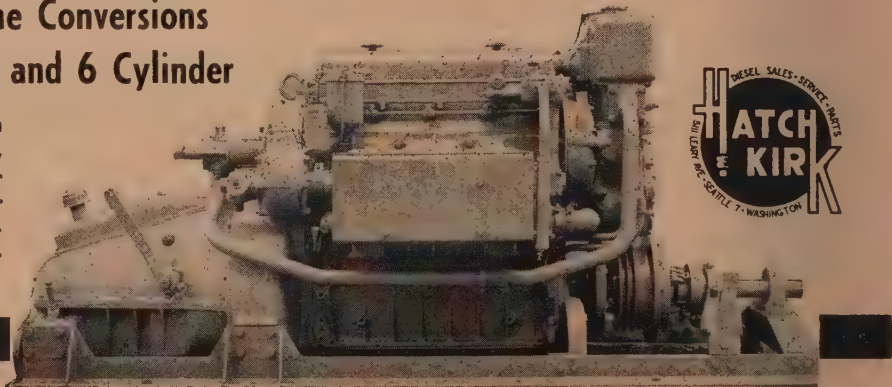
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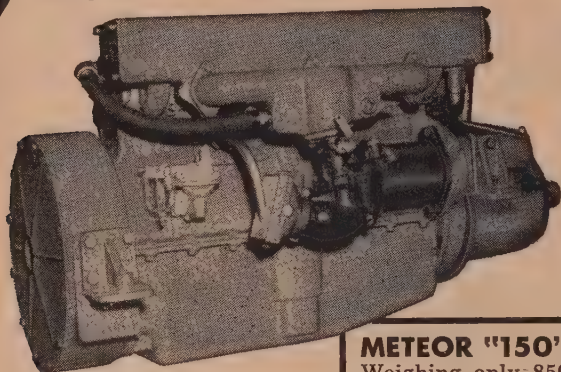
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Columbia-Geneva Steel Division, United States Steel Corporation, San Francisco

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finest for '56!
Red Wing Engines

METEOR SERIES

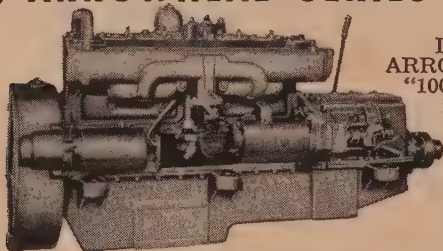


METEOR "150"

Weighing only 850 pounds, this powerhouse delivers 150 H.P. at 3,200 R.P.M. Bore: 4"; Stroke 4½"; Piston displacement: 339 cu. in.

You get more speed with the great new light weight Red Wing Meteor engines, built for *today's* boats. Available in 4 models, ranging from 20 to 150 H.P., they deliver "Thorobred" power and stamina PLUS! More than half a century of marine know-how assures dependability and satisfaction.

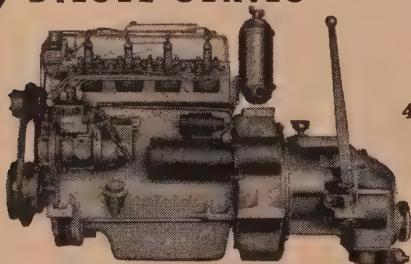
ARROWHEAD SERIES



Illustrated: ARROWHEAD "100". Models from 10 to 100 H.P.

Famous on fresh and salt water, the Red Wing Arrowhead engine has been the "workhorse" of the industry for 50 years. Advanced design and manufacturing methods have made it the longest lasting engine in the field.

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3½"	3"	3/4"
3½"	3½"	3/4"
4"	3"	3/4"
6½"	1"	1"
6½"	3¾"	1"
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4½" (crab buoy)	18"	3/4"

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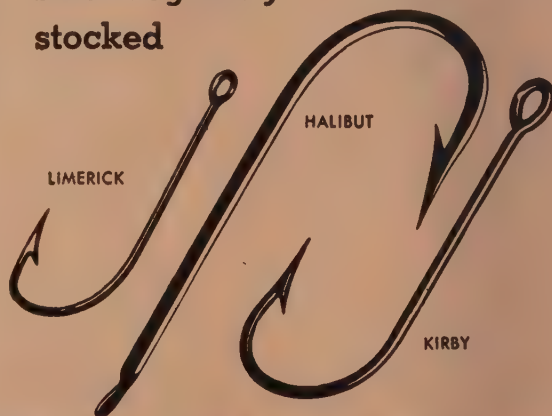
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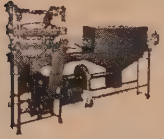
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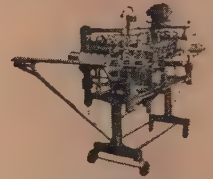


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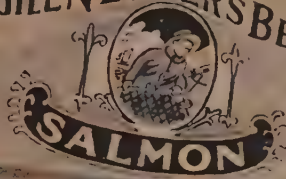
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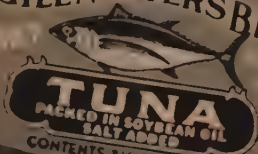


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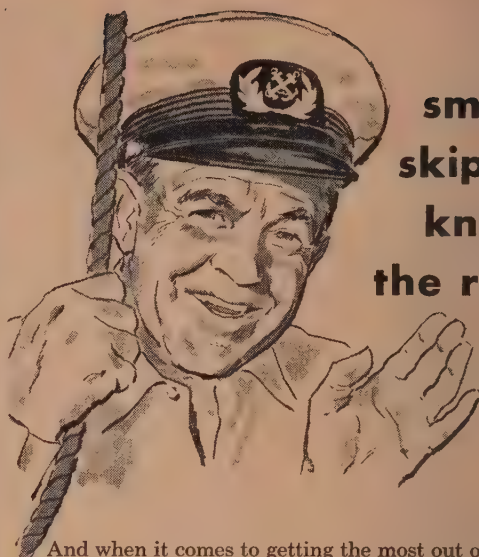
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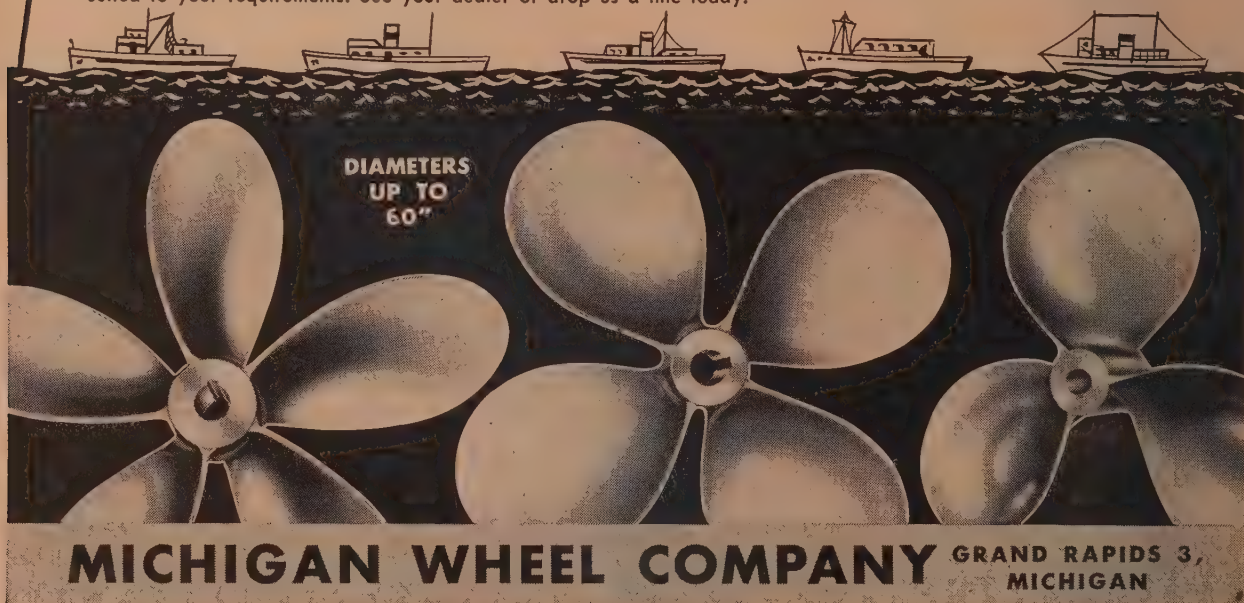
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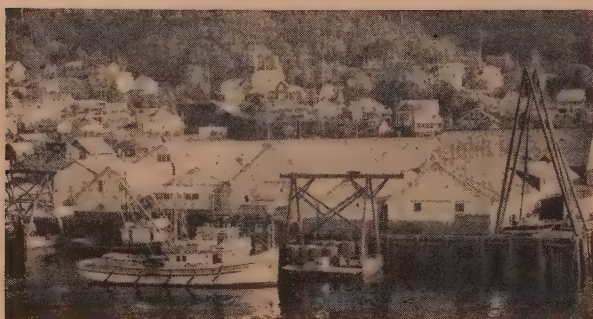
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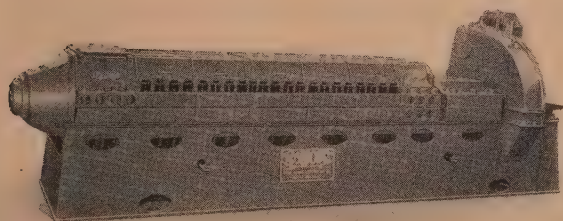
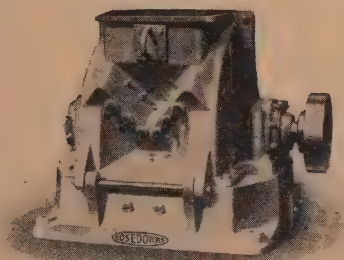


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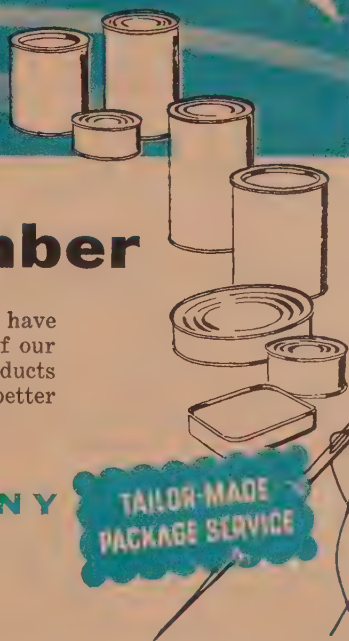
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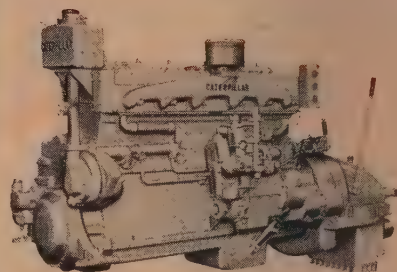


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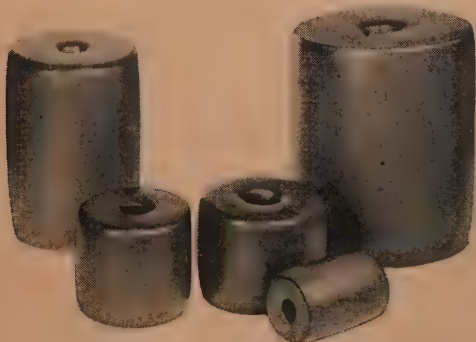
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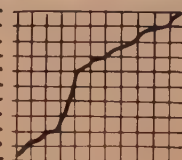
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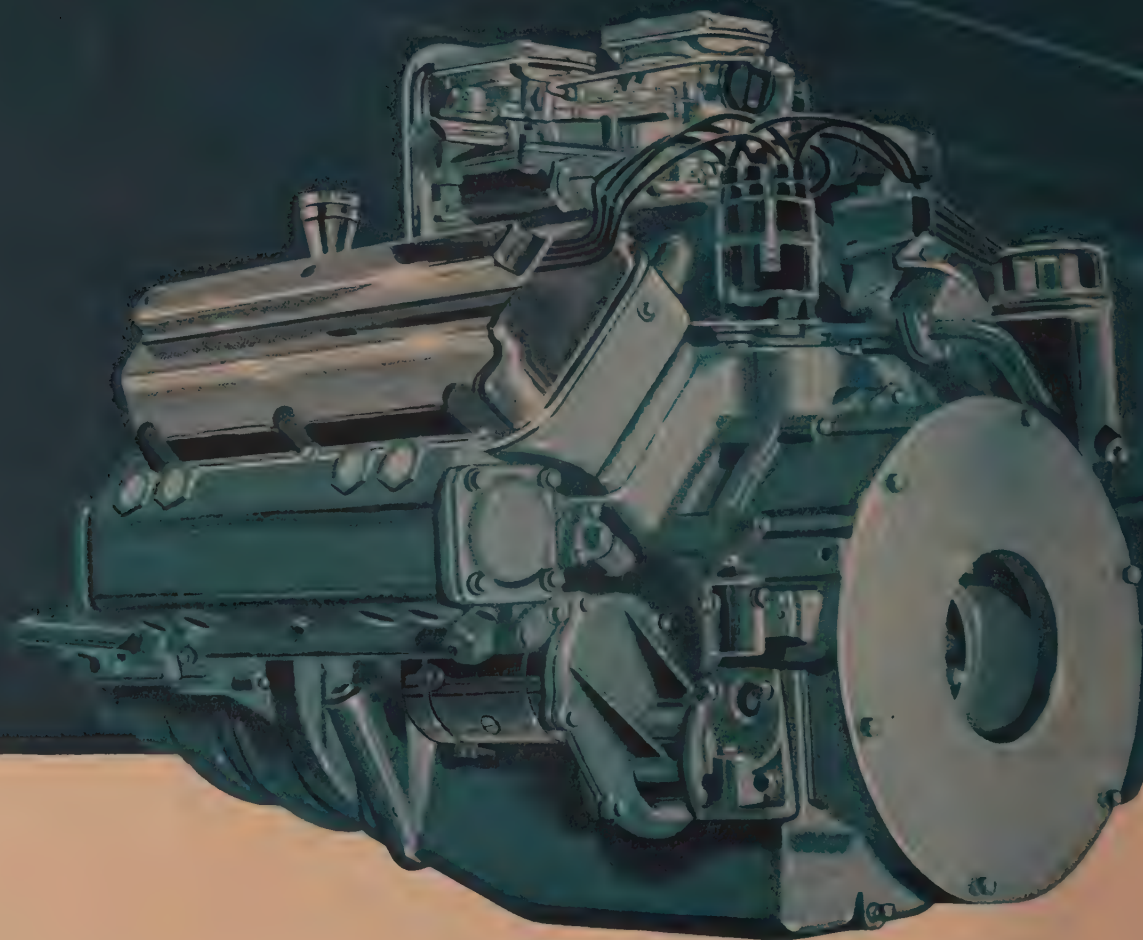


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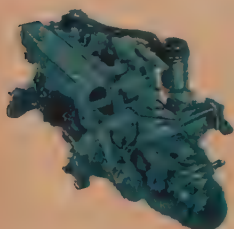
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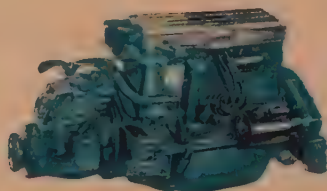


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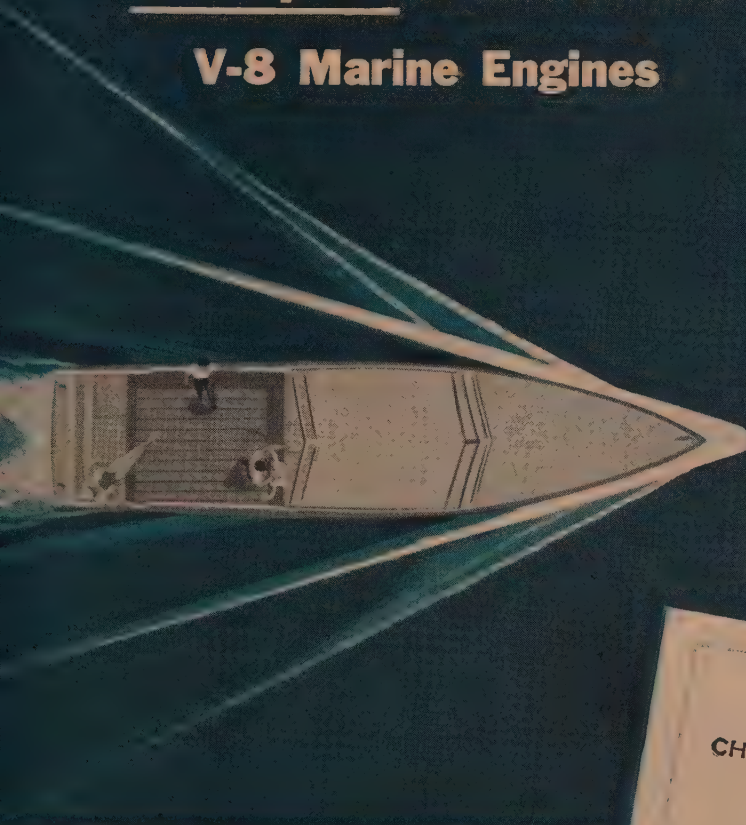


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Oversquare Short-Stroke

V-8 Marine Engines



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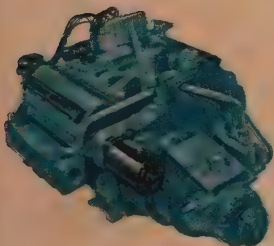
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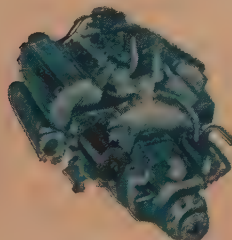
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ROYAL V SPECIAL (M-44S)
150 h.p. V-8 Engine



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200 h.p. V-8 Engine



IMPERIAL V-250 (M-45SP)
250 h.p. V-8 Engine

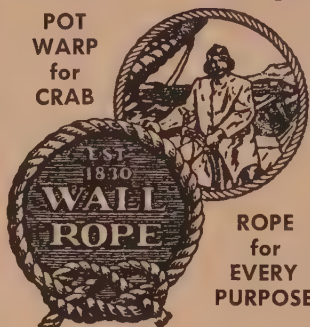
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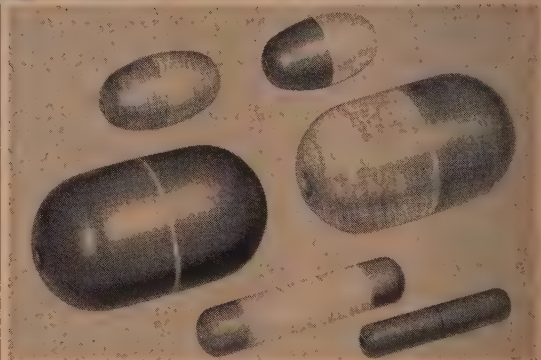
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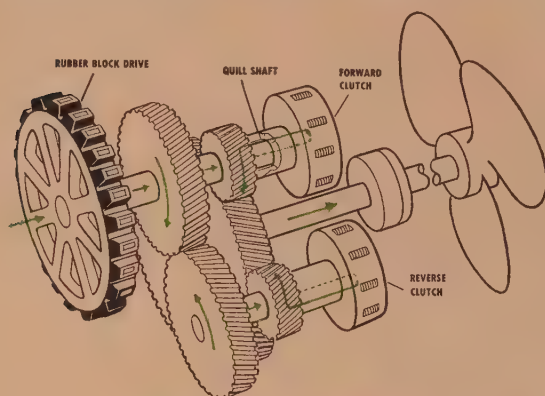
FISHERIES COMPANY

**1826 EXCHANGE BLDG.
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ALASKA CANNED SALMON

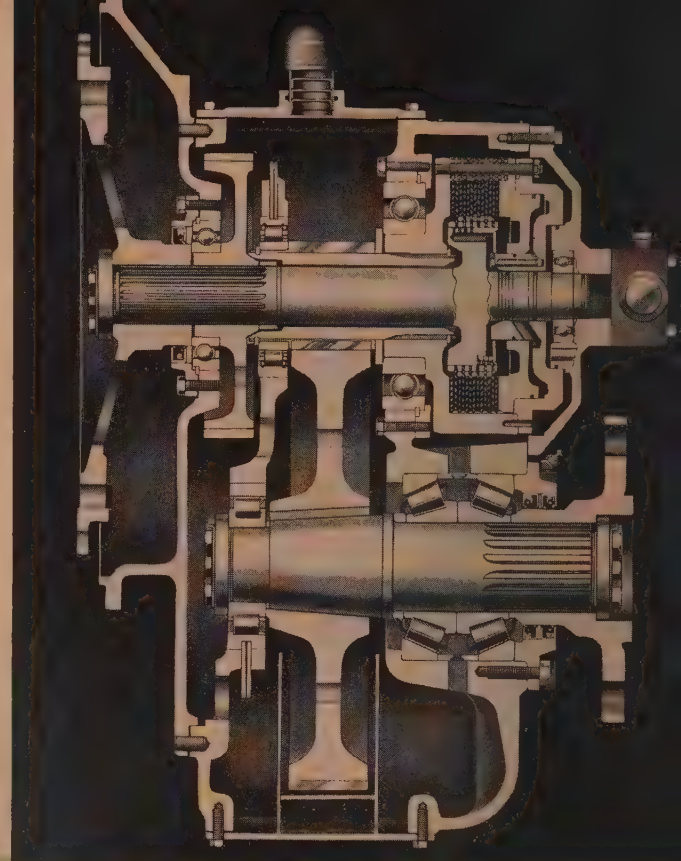
ALASKA CANNERIES
SHEARWATER and PORT BAILEY

Unique arrangement of five hardened and ground helical gears, straddle mounted on short rigid shafts, plus two hydraulically actuated clutches permit the unusually short 17 $\frac{7}{8}$ " length.



NEW!

MG-511



Marine Reverse and Reduction Gear

For today's high speed, high horsepower marine engines, Twin Disc has spent three years of research, design and testing to develop a marine gear that is compact, smoother and faster on response, and easier to service. The new MG-511 is the answer to marine power transmission for engines up to 240 continuous hp at 2100 rpm.

Compact? The MG-511 is only 17 $\frac{7}{8}$ " from the SAE housing flange to the output propeller shaft flange! A unique arrangement of five carburized, hardened and ground helical gears, straddle mounted on short rigid shafts, plus two hydraulically actuated clutches permit this extremely short length. All gears in

the MG-511 are mounted on anti-friction bearings to reduce power waste. A rubber block drive is used to transmit power to the gear. The tough, time-tested rubber block drive withstands normal misalignment conditions without imposing undue loads or stresses on the marine gear input shaft or the engine crankshaft.

An oversize 10 gpm pump, driven by the marine gear reverse shaft, is used not only to actuate clutches — but also to pump oil into the heart of each clutch. This flood of oil carries away heat, assures smooth clutch engagements and substantially reduces clutch plate wear. Oil is also pumped to provide forced

feed lubrication of meshing gears.

One of the outstanding features of the new MG-511 is the smooth engagement and disengagement of the forward and reverse clutches. This is accomplished through a differential mechanism in the selector valve, which permits a steady rise of actuating oil pressure from 30 psi to the maximum of 140 psi in smooth, even increments — in only one second. Further smoothness is also assured because of the flooded-in-oil plate stack. Forward, neutral and reverse are controlled by the selector valve.

Servicing the new Twin Disc MG-511 is an easy job because the clutches are located at the extreme

after end of the gear. Simply remove the cover plate cap screws, and the clutch driving plates are accessible for easy and speedy replacement, without need of disassembling the gear from the engine. The pump is serviced just as easily, as it plugs into the reverse shaft and is held in place by only four cap screws. Adequate inspection plates are provided to permit servicing other components.

The MG-511 is designed for full horsepower operation continuously

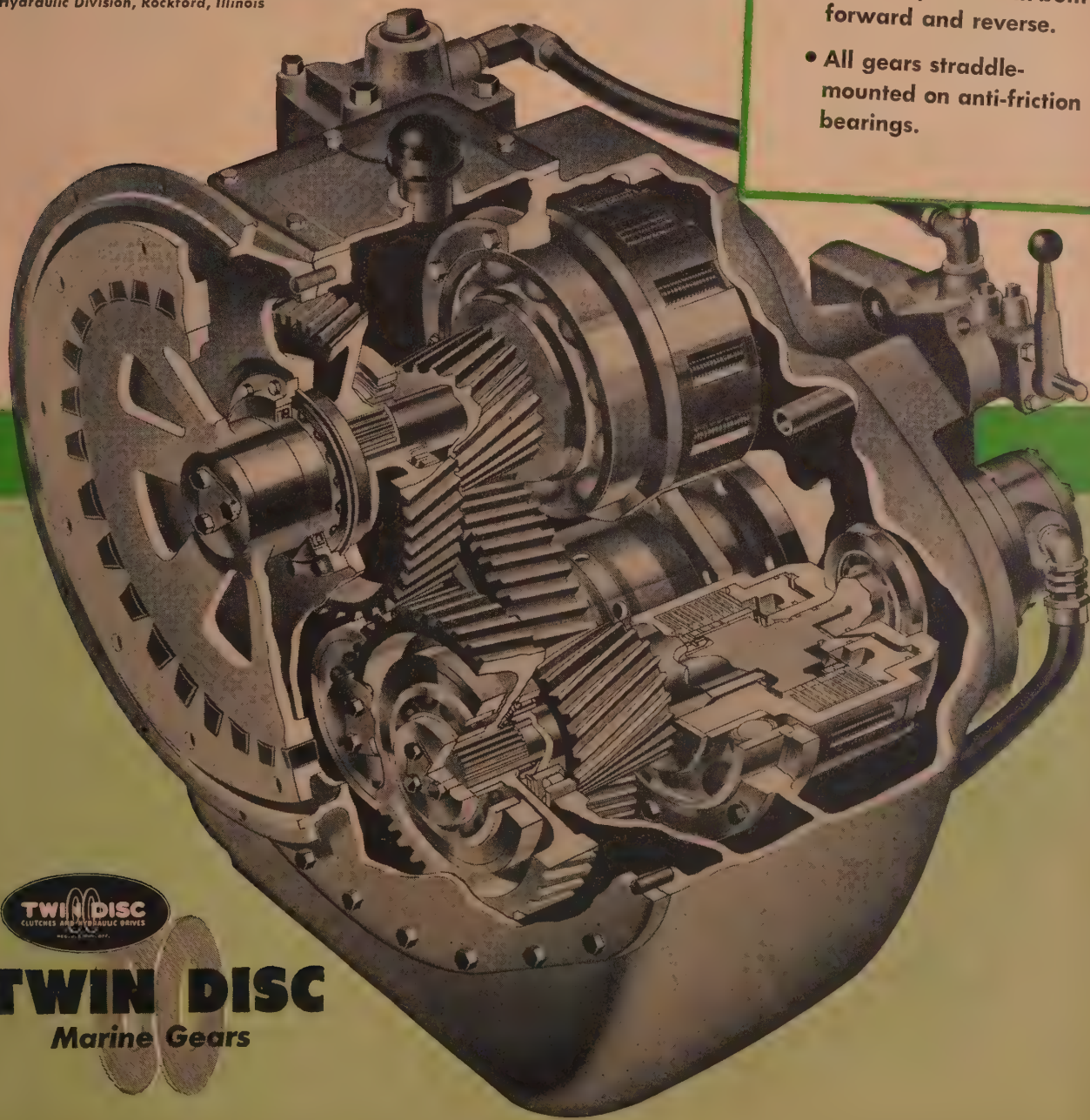
in both forward and reverse output shaft rotations. This makes the gear ideally suited for twin-engine installations of right hand engines—or it can be adapted for left-hand engines by merely changing the oil pump.

With all these features — backed by Twin Disc's more than twenty years experience in building marine gears — the new Twin Disc Model MG-511 provides the answer to the marine industry's power transmission problems.

TWIN DISC CLUTCH COMPANY • RACINE, WISCONSIN

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- Ratios: 4.4:1, 3:1 or 2:1.
- Unusually short — 17 $\frac{7}{8}$ " length.
- Rubber Block Drive.
- Finger-Tip Control.
- Oil-Actuated, Oil-Cooled, Multiple Plate Clutches.
- All components easily accessible for servicing.
- Full hp operation in both forward and reverse.
- All gears straddle-mounted on anti-friction bearings.



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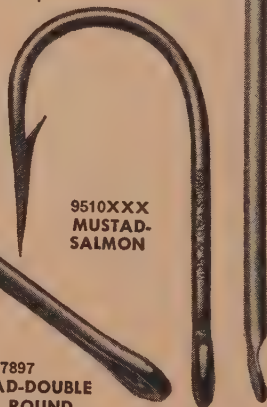
Sales Agents

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2345 West 3rd St.
Los Angeles

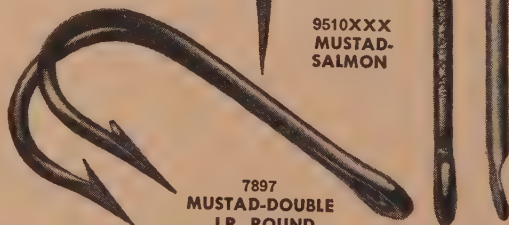
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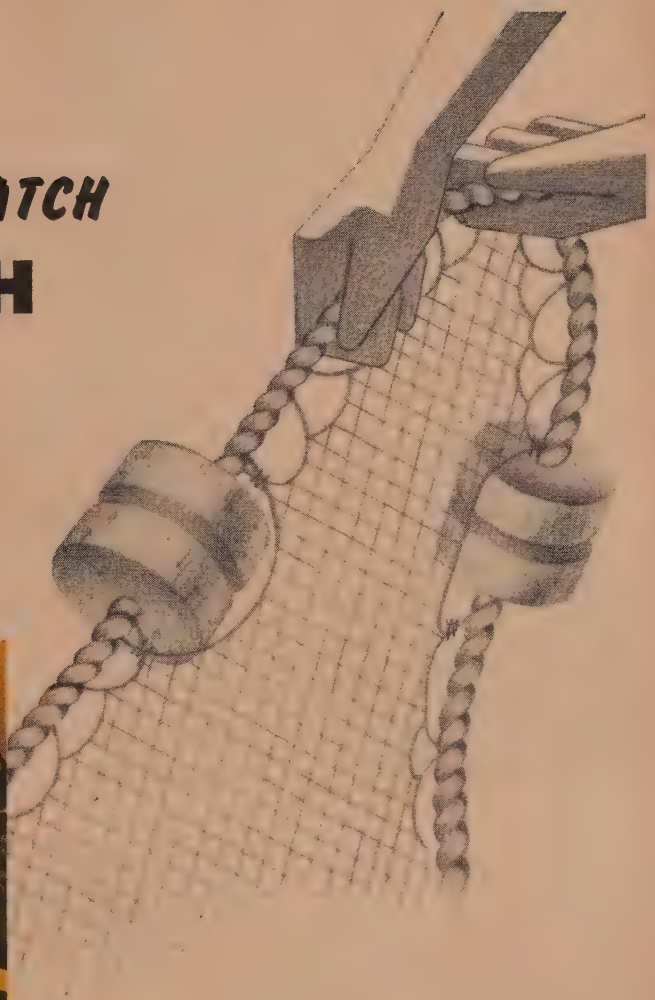
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FISHERMEN'S CO-OPERATIVE FEDERATION
HALIBUT PRODUCERS CO-OPERATIVE FRESH FISH DIVISION

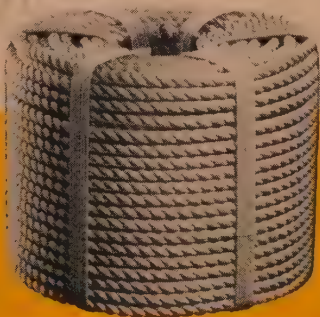
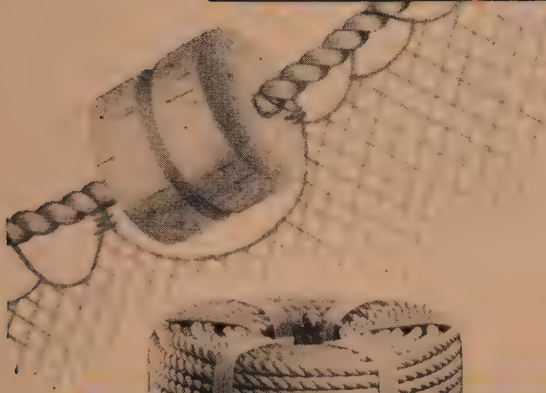
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Minutes and seconds count when the fish are running, so the fisherman whose boat, nets, and rope are reliable is surest to bring back a catch. (Many a haul has been lost by the delay of an ill-timed breakdown.)

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Tubbs Extra Superior Manila is supplied in all sizes, lays, and treatments required for commercial fishing.



TUBBS

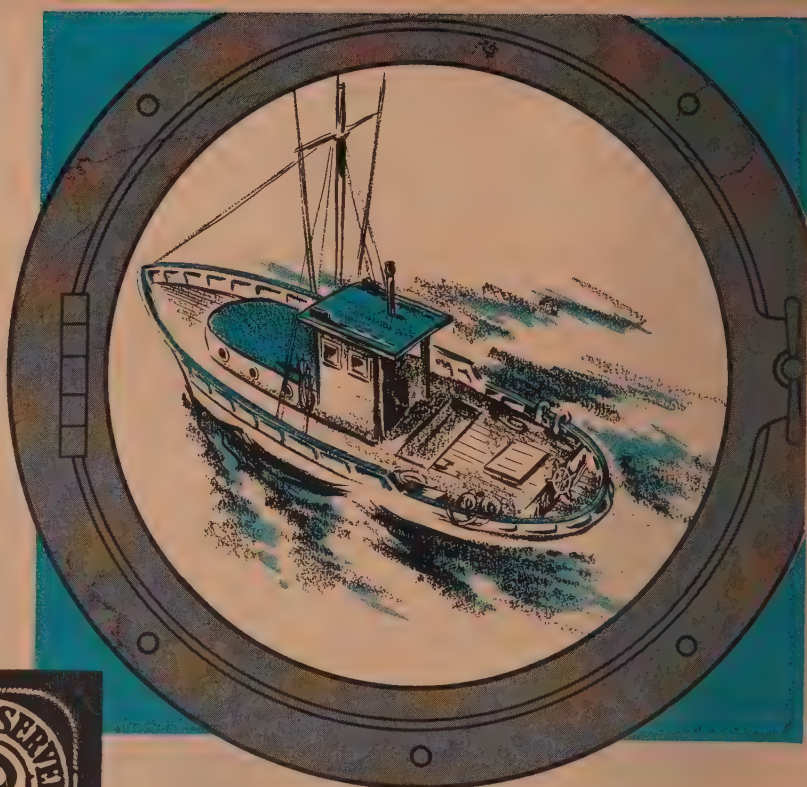
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Fishermen say Triple C is good for boat bottoms, but they really mean it's bad for grass, teredos, and all other marine growth. With Triple C... Cape Cod Copper Compound... keeping bottoms clean, slick and drag-free, owners expect their boats to go faster, burn less fuel, and need fewer costly haul-outs.

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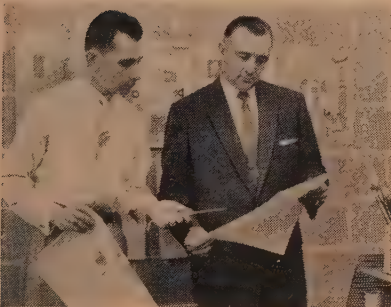
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The Man from Marathon knows what sells frozen fish



The Man from Marathon knows what makes her stop . . . then reach for your product. Package design, package shape, over-all cabinet appearance—all play a part.

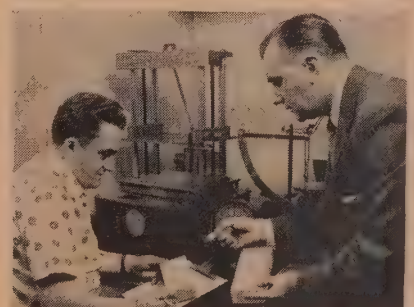
His knowledge is based on personal observation and careful analysis of continual camera studies of buying habits across the nation.



The Man from Marathon has a full-time art department at his beck and call . . . design counsel to translate practical selling ideas into a better selling design for you.



More than a quarter century of Marathon printing experience, plus his own expert knowledge of printing techniques, enables him to suggest solutions to problems of printed packaging . . . to see that your design is perfectly reproduced.



Before your packages reach the point of sale, he knows through exhaustive tests . . . and so do you . . . that Marathon packages can speed production, cut production costs, protect your product and your reputation.

Ask the Man from Marathon for complete information and samples of cartons and overwraps that sell and protect frozen food products, or write Marathon Corporation, Dept. 631, Menasha, Wis.

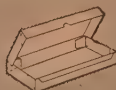
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side-view showing adjustable bracket

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IDEAL FOR SMALL BOATS
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And besides Preformed Special Galvanized, there's a Roebling wire rope that will give you top efficiency and long-run economy for standing rigging and every other service. Call your distributor or the nearest Roebling office. They are listed in the yellow pages. John A. Roebling's Sons Corporation, Trenton 2, N. J.



ROEBLING

Subsidiary of The Colorado Fuel and Iron Corporation

Standard Engineer's Field Report

CASE HISTORY
Chevron Pressure
PRODUCT *Primer System*
Allman-Hubble Tugboat Co.,
FIRM *Hoquiam, Washington*

Priming System starts diesel on 1st or 2nd turn — saves batteries and eliminates fire hazard



COLD WEATHER STARTING is no problem aboard the Ranger, (above), 43-foot work boat operated by Allman-Hubble Tugboat Company in the Aberdeen-Hoquiam area. A small steel cartridge, charged with Chevron Priming Fuel, fires her 150 h.p. Caterpillar D-17000 power plant on the first or second turn—avoiding the usual long cranking period that exhausts batteries. Mr. Howard Hubble, skipper of the Ranger, is shown (right) inserting primer cartridge in Chevron Pressure Primer Discharger mounted on engine. "This system," Captain Hubble says, "not only saves batteries, it gets away from the dangerous

practice of holding a rag soaked in starting fluid up to the breather cap. You get a safe, controlled charge, with no danger of fire or a cracked cylinder head caused by a racing engine." The Chevron Pressure Primer System is Coast Guard approved. It starts diesels in less than 10 seconds at -50°F .

FREE FOLDER tells you more about Chevron Pressure Primer System and how to install it on different engines. Write or ask for it today.

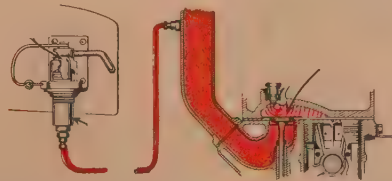
FOR MORE INFORMATION about this or other petroleum products of any kind, or the name of your nearest distributor, write or call your Standard Oil Company of California, 225 Bush St., San Francisco.



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Why Chevron Pressure Primer System helps starting

Volatile Chevron Priming Fuel atomizes in induction system at temperatures as low as -65°F . Pressure or weakest spark from engine fires mixture.



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This same fine quality product is also available to the trade unlabeled, for private brand labeling.

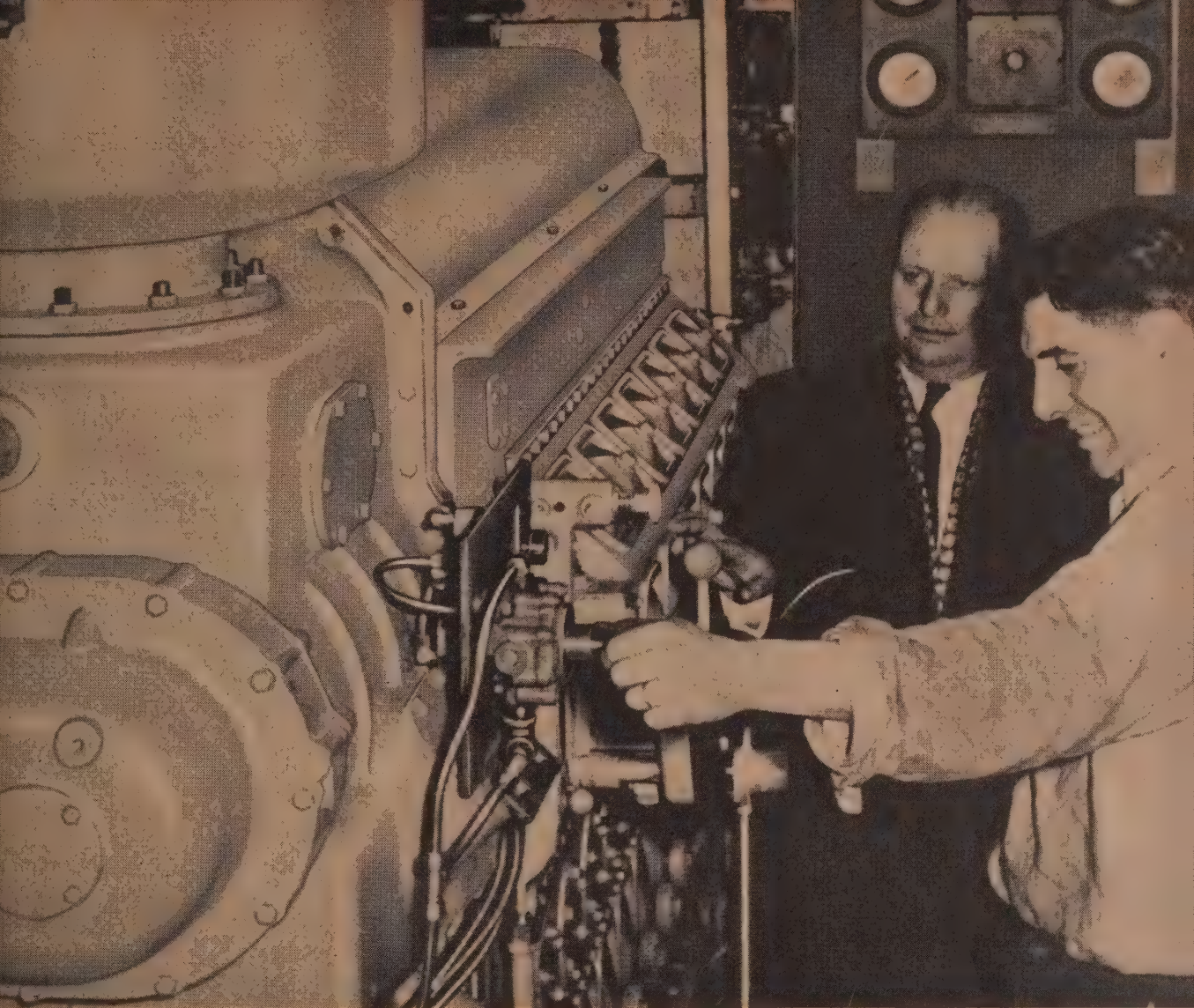
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For the HOLY FAMILY . . . Replacing her 325 hp. engine with the New Model 38F Opposed-Piston Diesel, increased her free speed 15%, trawling speed 50%. Being a shorter and lighter engine, the O-P allowed a 30% increase in fish-hold capacity. Fuel capacity was also increased, extending her steaming range.

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re-powering with a Fairbanks-Morse O-P Marine Diesel.

For the crew . . . Based on an accurate audit of total stocking and gross revenue, the crew of the *Holy Family* received a 52% increase in share since re-powering with the 445 hp. Fairbanks-Morse Opposed-Piston Diesel. In addition, there is the added safety and reliability of an engine that "... hasn't cost a lost day."

What O-P Can Do For You—Send for your copy of complete "Holy Family Report" . . . and see how an O-P of 200 to 2400 hp. can make money for you. Fairbanks, Morse & Co., 600 So. Michigan Ave., Chicago 5, Ill.

Send for your copy of "Holy Family Report"



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a name worth remembering when you want the best

More Profit by



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NETTING · ROPE



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Why not save money, time and labor to increase catch and profit? Thoroughly tested out over three years of intensive service in actual use, MANRYO has come to be recognized as a truly revolutionary performer by the Japanese fishing industry. So impressive have been the results that the Japanese government is offering positive encouragement to this product in its 5-year export promotion program.

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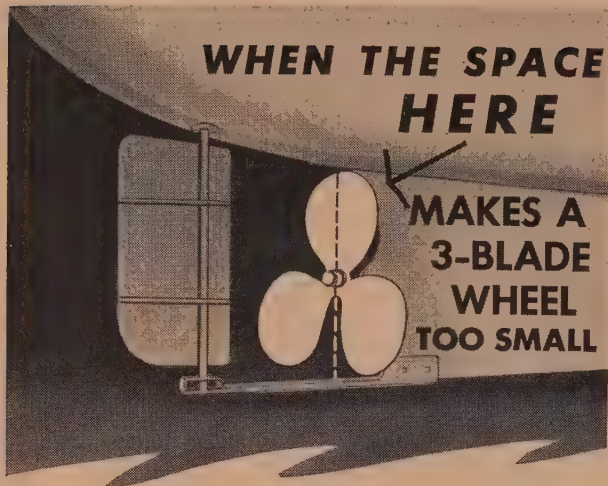
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**MAKES A
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Dependable service and economy

*have led me to install 22 GM Diesels
in the past 3 years"*



CAPT. JOHN SANTOS, 90-foot menhaden boat
powered by two GM "6-110" Diesels



PESCADOR, 70-foot trawler
powered by GM "6-110" Diesel



DIANNE and CAROLE, 120-foot menhaden boat
powered by two GM "6-110" Tandem-Twin Diesels



—Capt. John Santos Carinhas
Patterson, La.

"IT'S been six years since I installed my first General Motors Detroit Diesel, a Twin '6-71' in the 'Capt. John Santos,'" relates this outstanding fisherman. "Since that time this boat has been repowered—again with GM, but with a pair of '6-110's.' Year by year since this first installation, we've added GM after GM Diesel in both our menhaden and shrimp boats. In a single year, 1953, eight of our boats were fitted with GM Diesels—and we now have 13 GM Diesel-powered boats in our fleet.

"We've found that with GM Diesels powering our boats, we have less breakdown time—which means more fishing time and more dollars in our pockets.

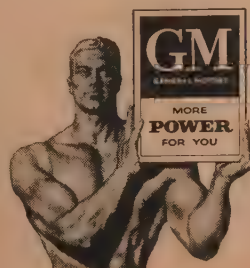
"Our shrimp boats range as far south as Campeche and often run into rough weather (40-50 mile gales) but our powerful GM Diesels have always proved equal to the task and brought our boats and crews safely home.

"General Motors service, too, has proved excellent, and this is a very important consideration—every hour we lose while tied up waiting for parts or service is lost fishing time and means lost profits.

"It is our plan to standardize our entire fleet of boats with GM Diesel power. I can recommend GM Detroit Diesels to fishermen everywhere without reservation."

When you buy a new boat—or repower your present one—call in your local GM Marine Diesel Distributor. He'll give you full details—show you how profit-making fishermen better their net with GM Diesel power.

Single Engines...30 to 300 H.P. Multiple Engine Units...Up to 893 H.P.



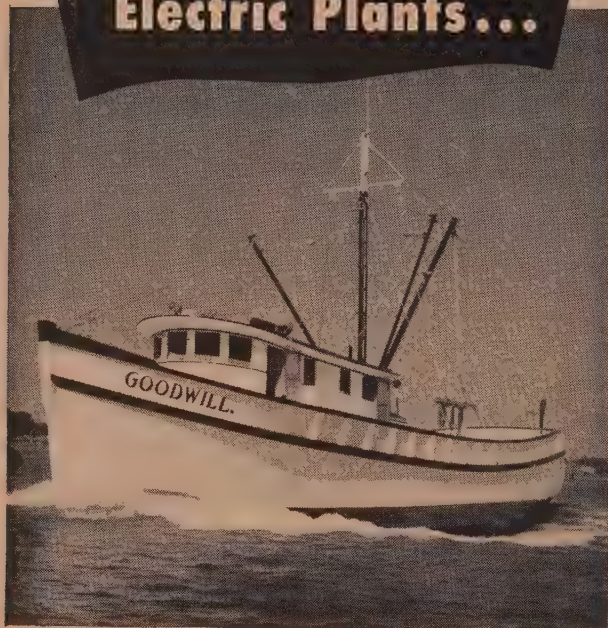
**DETROIT
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**Engine Division
of General Motors**

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In Canada:
General Motors Diesel Ltd.,
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America's Largest Builder of Diesel Engines

ONAN Electric Plants...



The trawler "GOODWILL" is Onan-equipped.

for dependable light and power!

There's an Onan electric plant or generator the right capacity and type for craft of every size and purpose . . . shrimpers, trawlers, tugs, workboats of all kinds. They speed work and save time by operating electrical equipment such as bilge pumps, compressors, radios, pressure water systems and floodlights. Smooth-running and dependable; compact and easy to install.

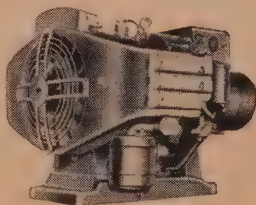
ONAN Air-cooled plants

Gasoline-powered—400 to 10,000 watts A.C. Battery charging and dual-purpose models.

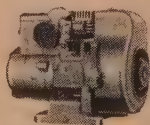
Diesel-powered—5,000 watts A.C. (shown at right), 3,000-watt A.C. and 3,000-watt, 32-volt battery charger.

ONAN Water-cooled plants

Gasoline-powered—400 to 3,000 watts A.C., battery charging and dual-purpose models. Diesel-powered—3,000 watts A.C. and dual-purpose A.C.-battery-charging model.



Model 3D5P, 3KW
Diesel-powered



Air-cooled models:
500 to 10,000 watts

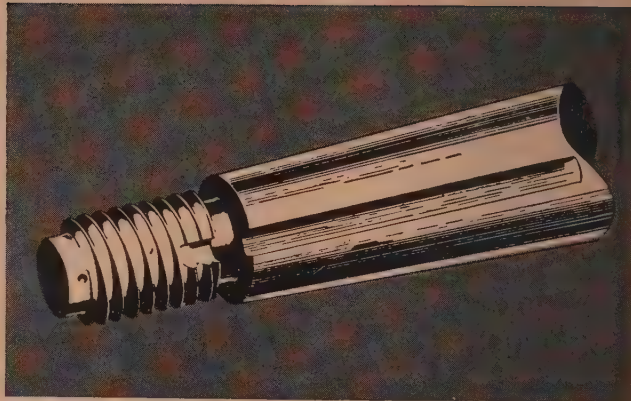


Separate Generators
1½ to 35KW

Write for Folder of all Marine plants

D. W. ONAN & SONS INC.

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Why A MONEL SHAFT...

Because Monel® shafts are

1. Highly resistant to salt water corrosion
2. Stronger, stiffer and harder than other corrosion-resisting shaft metals

Also, if you plan to increase engine power you can often save money by running it through a strong Monel shaft of the same diameter as your old bronze shaft. This saves you the cost of new shaft log and bearings. Check the figures on engine power and rpm with your engine builder or naval architect.

Where TO GET IT...

You can order Monel shafts through your local boat yard or from the following warehouses or their authorized stocking jobbers of Monel shafts:

Pacific Metals Company, Ltd.

1400 South Alameda Street · Los Angeles 21, California

1533 India Street · San Diego 1, California

3100 Nineteenth Street · San Francisco 10, California

Eagle Metals Company

2336 North Randolph Avenue · Portland 12, Oregon

4755 First Avenue South · Seattle 4, Washington

Wilkinson Company, Ltd.

190 West Second Avenue · Vancouver, British Columbia

THE INTERNATIONAL NICKEL COMPANY, INC.

67 Wall Street

New York 5, N. Y.



Monel "....It's the Seagoin'® metal"

NOW...30 HP!

NEW FUEL ECONOMY

FASTER STARTING

STALL-PROOF IDLING



NEW SEA-HORSE
30

NINE GREAT MOTORS

*JAVELIN	30 hp . .	\$582.00
*SEA-HORSE 30 . .	30 hp . .	552.00
SEA-HORSE 30 . .	30 hp . .	462.00
*SEA-HORSE 15 . .	15 hp . .	452.00
SEA-HORSE 15 . .	15 hp . .	362.00
SEA-HORSE 10 . .	10 hp . .	321.00
SEA-HORSE 7½ . .	7½ hp . .	241.00
SEA-HORSE 5½ . .	5½ hp . .	216.00
SEA-HORSE 3 . . .	3 hp . .	146.00

*Electric Starting...Prices f.o.b. factory, subject to change...OBC certified brake hp at 4000 rpm (30's at 4500 rpm).

FOR 1956: Johnson presents NINE Sea-Horses... 3 to 30 hp! Featuring new fuel economy. Quicker, smoother starting than ever before. New Stall-Proof Idling. Electric and manual starting. Remote Control fittings for steering, shift, and throttle. And traditional Johnson *DEPENDABILITY*. All models are beautifully styled in Johnson's new Holiday Bronze and Spray White.

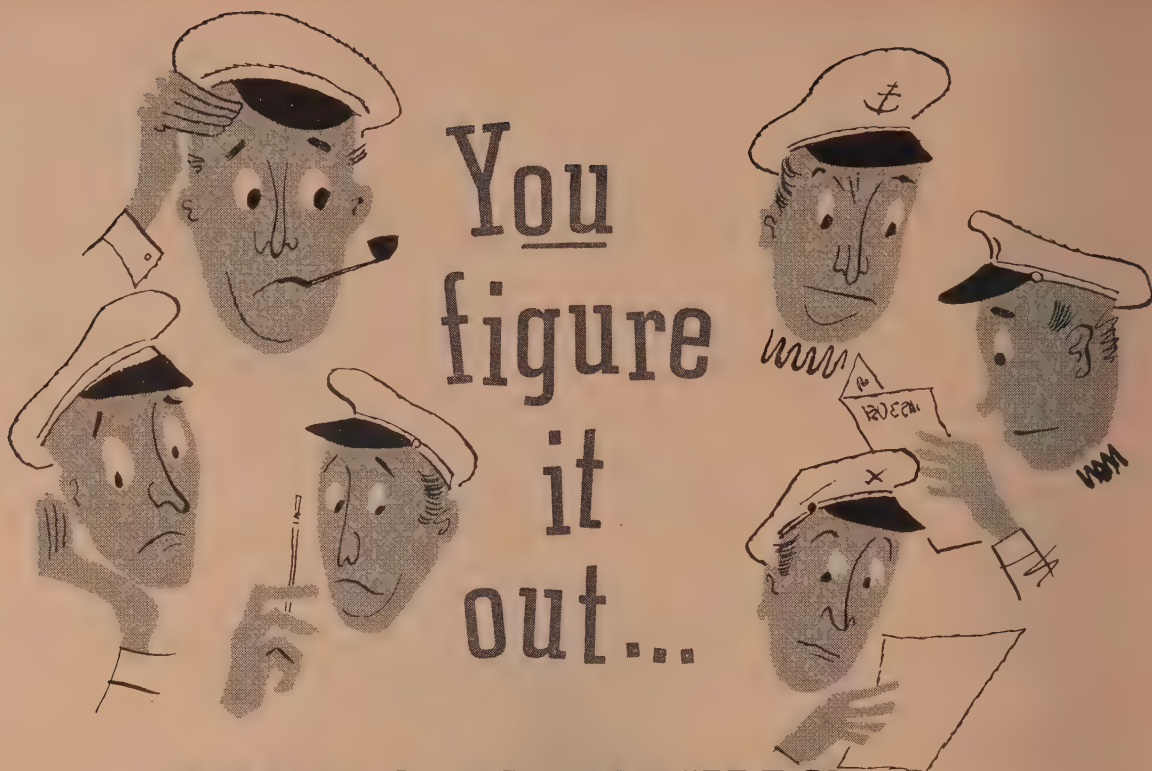
FREE! The new Sea-Horse Catalog gives the full story on all that's new for '56. New models, new features. New power and load-carrying ability. Write...

JOHNSON MOTORS, 6700 Pershing Road, Waukegan, Illinois
A DIVISION OF OUTBOARD, MARINE & MANUFACTURING COMPANY
In Canada: Manufactured by Johnson Motors, Peterborough

Johnson

SEA-HORSES
FOR DEPENDABILITY

ALL JOHNSON SEA-HORSES ARE PROTECTED AGAINST SALT WATER CORROSION — NO FLUSHING NECESSARY



You
figure
it
out...

it's **PAULS NETTING**

for top value!



Anyway you look at it, you buy netting to *catch fish*. Because it does this job so well, you can't beat PAULS NETTING for value.

It's quality-designed, quality-built netting

To catch the fish . . .

To hold the fish . . .

To give you long wear.

**DON'T TAKE CHANCES,
GET PAULS NETTING.**



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THE LINEN THREAD CO., INC.

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 DEL MONTE BRAND NAME



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CALIFORNIA PACKING CORPORATION
 San Francisco, Calif.

NOW...

UP-TO-DATE

LORAN

at Practical Cost!



EDO

Direct-Reading LORAN

Now you can have the most modern Loran equipment at lowest cost ever... for time-saving, fuel-saving navigation accuracy. The new model 262 Edo Loran gives you quick, directly-read position indication with no complicated calculating. Designed by Edo, famed builder of Navy Sonar, underwater detection gear and other marine electronic equipment of *highest possible quality*.

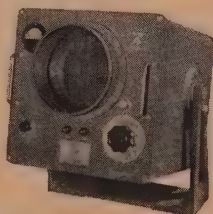
You Want These Superior EDO Features

- Only 26 tubes including cathode ray tube and rectifiers. Means far simpler servicing.
- Single, compact, light-weight, self-contained unit.
- Lower power consumption: 150 watts, 115 volts @ 60 cycles.
- The unit can be mounted on table, overhead or bulkhead.
- Large direct-reading dials especially illuminated for night use. Recessed CRT requires no hood.
- Delay is not stored and cannot drift.

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Find FISH FASTER with EDO FISHSCOPE!

Finest electronic fish finder available. EDO FISHSCOPE locates schooled fish on cathode ray tube, multiplies view 20 to 40 times. Don't be satisfied with less than the best. Increased hauls prove FISHSCOPE's superiority. Write for brochure.



Edo CORPORATION

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NET-LIFE

net
and
line
preservative

The Original and Genuine In Use Since 1944

- 1 Easy to apply, no heating, dipping time—5 to 10 minutes. Quick to dry—6 to 12 hours.
- 2 Highest fungicide, bactericide, & germicide value.
- 3 No burning of net. Not harmful to handle. No after stickiness.
- 4 Uniform penetration to core of the net.
- 5 A truly homogeneous solution. No settling or separation of ingredients.
- 6 Manufactured under controlled, scientific conditions by the pioneer of this modern type of preservative.

ALL OF WHICH ADD UP TO GREATER ECONOMY THRU
SAVINGS IN NETTING, TIME, AND MANPOWER.

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Nylon netting for long-run economy

Lighter Weight

Fish with lightweight nylon netting and rope for quicker sets and net recoveries. Nylon doesn't soak up water . . . makes nets easier to handle. And, it is rugged, resists damage from marine rot and fish slime . . . saves you time and money because it needs no salting or preservatives. Nylon nets last season after season, have outlasted natural fiber nets three to one. Leading netting manufacturers combine their skills and experience with the unique properties of nylon to bring you netting that cuts fishing costs and improves efficiency. Ask your regular supplier for complete information, or write: E. I. du Pont de Nemours & Co. (Inc.), (PF-1), 2494 Nemours Building, Wilmington 98, Delaware.

Ropes of Nylon or DACRON*

"Perfect partners" for use with nylon netting—hanging and purse lines of nylon or "Dacron" polyester fiber. Tougher and more durable, these longer-lasting ropes match the life of nylon netting—save rehangng time and money.

*"Dacron" is Du Pont's registered trademark for its polyester fiber. Du Pont makes fibers, does not make netting or ropes.

PROVED ON THE JOB — ADVANTAGES OF NYLON NETS

More durable—keep their dependable fishing strength, season after season.

Lighter weight—do not soak up water, . . . easier to handle, wet or dry.

Need no preservatives—unaffected by marine rot and mildew.

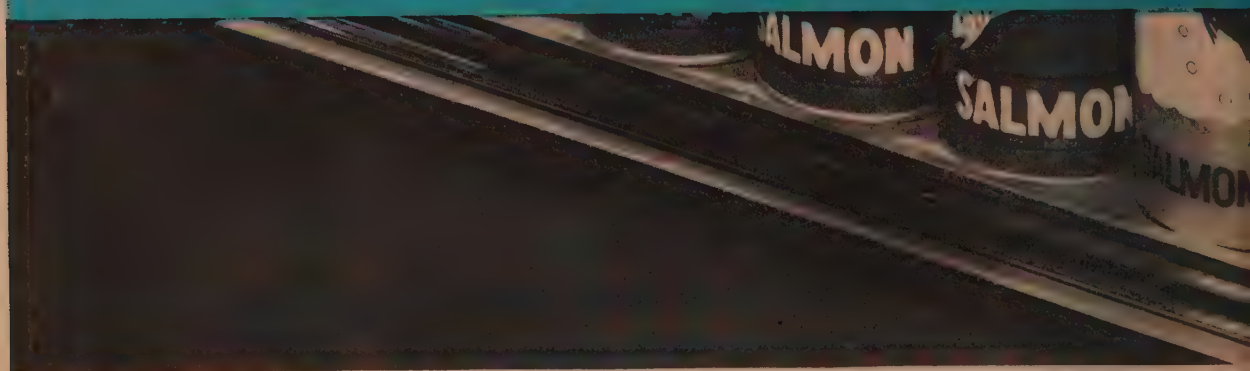
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BETTER THINGS FOR BETTER LIVING
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How CANCO helps her choose your brand !

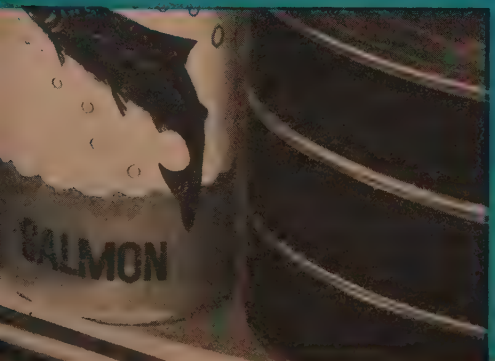
We at Canco like to think that *your* business is *our* business. So what you pack and how you pack it are special concerns of ours. That's why Canco offers more services to its customers than any other can manufacturer.

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- Neoprene coated outside, inside
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Black Body Boots • "Shockproof" insole • cleated outsole • webbing shoulder straps

U. S. INDUSTRIAL RAYNSTERS®
U. S. ROYAL RUBBER FOOTWEAR

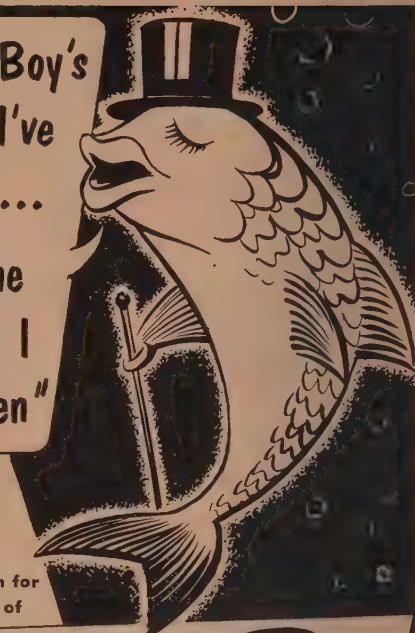
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United States Rubber

"Butcher Boy's
the one I've
chosen.....

To cut me
up when I
am frozen"



The basic reason for
the superiority of

Butcher Boy

ELECTRIC FISH CUTTERS

is the fact that they are designed from the "Butcher's Angle" and represent a unique combination of thorough knowledge of the butcher's problems, plus great pride of craftsmanship. No wonder, then, that a listing of shops and institutions using Butcher Boy equipment reads like a roll-call of leaders in the industry.

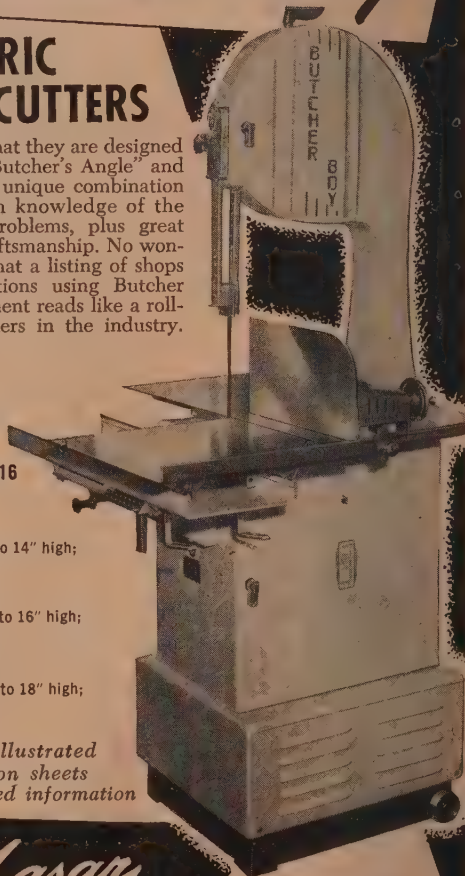
**3
SIZES**
B-12, B-14, B-16

B-12 Cutter
Takes cuts up to 14" high;
11½" wide

B-14 Cutter
Takes cuts up to 16" high;
13½" wide

B-16 Cutter
Takes cuts up to 18" high;
15½" wide

Write for illustrated
specification sheets
and detailed information

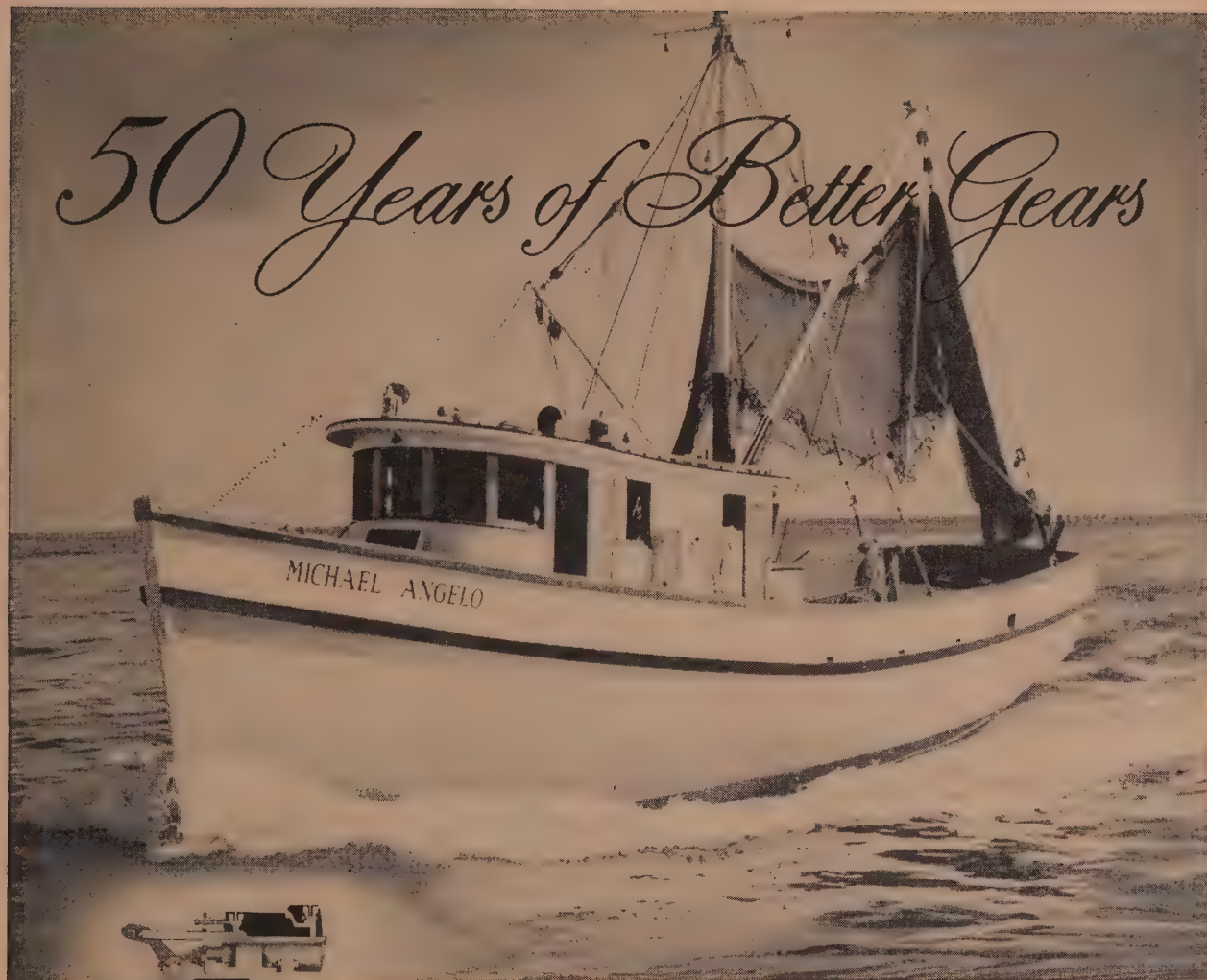


Lasar

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Butcher Boy—a name,
and a product, you can
trust. Manufactured
and guaranteed, since
1929, by Lasar Mfg. Co.

50 Years of Better Gears



SNOW-NABSTEDT

SERVING THE MARINE FIELD SINCE 1906

When you power or repower your fishing vessel, give careful consideration to the reverse and reduction gear. Snow-Nabstedt Gear Corp., has modern marine engine transmissions specifically designed for your application. To keep pace with the marine engine industry and the increasing number of boats, during the past 50 years, continuous research and development has been necessary, resulting in new and improved S-N transmissions.

These gears are now capable of operating under the toughest service conditions. They are designed for all types of diesel and gasoline propulsion engines up to 1000 H.P. Snow-Nabstedt transmissions are known for their long life and trouble-free performance. For this reason they are preferred the world over by competent boat captains and fish producers who know their equipment.

Snow-Nabstedt Gear Corp., has a complete line of reduction ratios available. When you next purchase an engine specify S-N so as to get the exact propulsion speed you require.

OTHER PRODUCTS PRODUCED: Clutches with reduction gears, speed increasers and reducers, reverse-reduction gears, multi-speed units and transmissions.



Let our engineers help you solve your power transmission problems.

THE SNOW - NABSTEDT GEAR CORPORATION, HAMDEN, CONNECTICUT

January 25, 1956

PACIFIC FISHERMAN

There's a new *"Maid"* on Puget Sound...

and she's powered by

MURPHY DIESEL

When a boat builder builds for himself, you can be sure he's going to be extra fussy about the kind of power he puts into the boat. That's why we are particularly proud of the 210 H.P. Murphy Diesel that powers the "Dream Maid."

The "Dream Maid" is a 57 ft. salmon purse seiner built by the Harold Hansen Boat Company, Seattle. She is owned by Dick Hansen and is the newest in a long line of Murphy powered boats built by the Hansens for their own use and others.

Profit from the experience of Murphy Diesel owners in your waters. Ask them about Murphy Diesel performance, dependability and operating economy. Then ask your Murphy Dealer to show you what this can mean to you.

MURPHY DIESEL COMPANY

5301 W. Burnham St., Milwaukee 14, Wis.

Murphy Diesel marine propulsion engines and auxiliaries are available in sizes from 96 to 243 H.P.; marine type generator sets from 64 to 165 K.W.



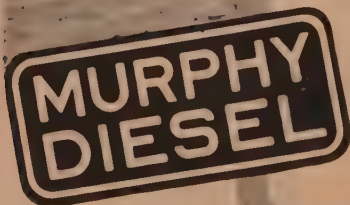
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Joseph C. Hemberger
Manager, Lanasa Shrimp Co.
Key West, Florida

"T5X Motor Oil...keeps engines amazingly clean"

"The first thing to impress me about T5X Motor Oil was that it keeps engines amazingly clean.

"A few months ago a storm caused a block of one of our 110 GM diesels to crack, and in the course of repairing this engine I was amazed at how clean it was inside... completely free from carbon, sludge and gum deposits.

"Now that we've had nearly three years' experience using T5X in the 110 GMs which power all 13 of our 70-foot shrimp trollers other benefits are equally apparent... freedom from bearing failure, minimal liner wear and extremely low general maintenance costs. We're sold on T5X for our type of operation where engines run under constant pressure dragging nets."

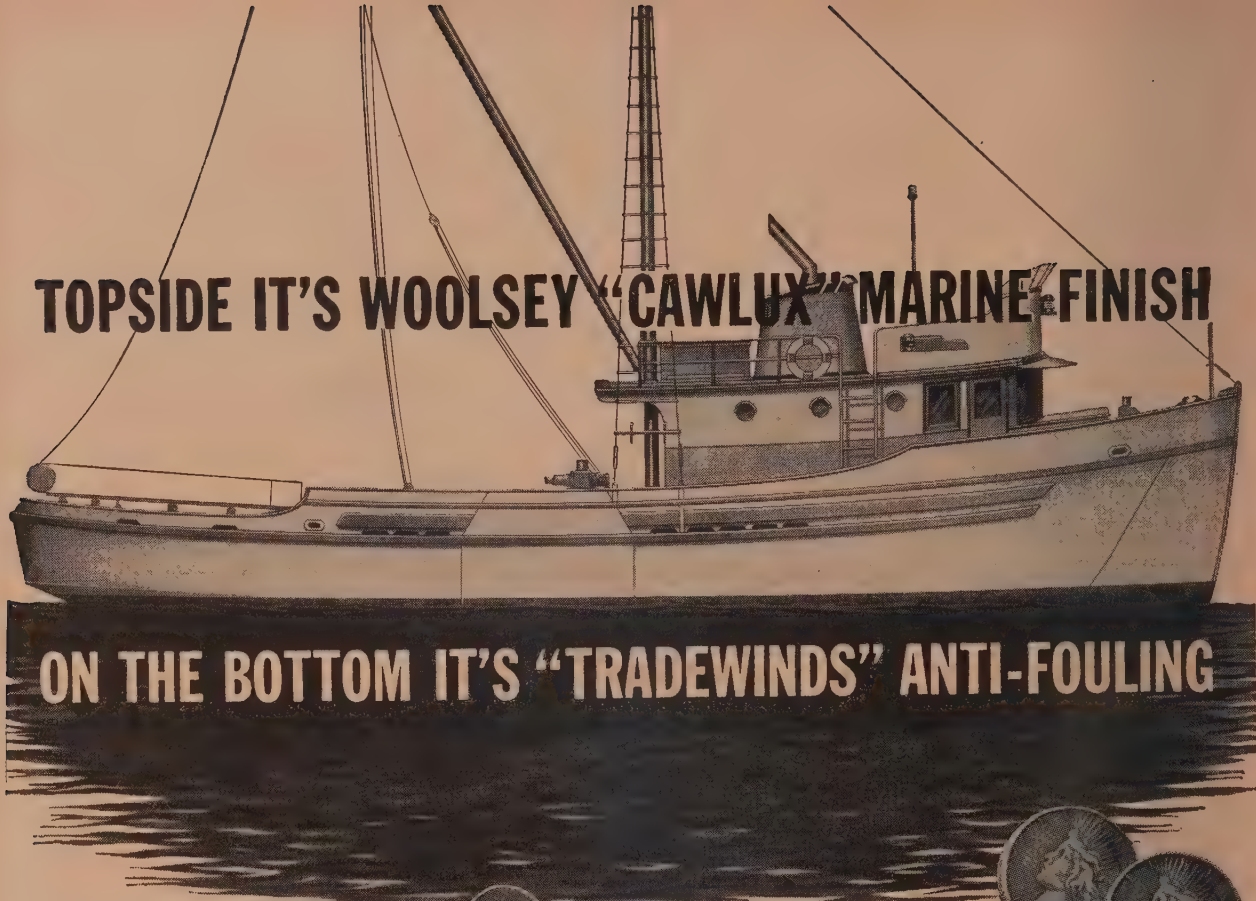
Joe Hemberger is right! T5X is exactly what is claimed for it. It's a *heavy duty* oil...one that's made to stand up to the toughest usage you'll ever want to give any marine diesel. If you're not yet using T5X in your boat we suggest you contact your nearest Union Oil representative for prompt delivery.

UNION OIL COMPANY
OF CALIFORNIA

76

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ON THE BOTTOM IT'S "TRADEWINDS" ANTI-FOULING

DON'T BE PENNY-WISE

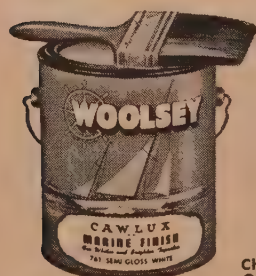


AND DOLLAR-FOOLISH



Reduce High Cost Haul-Outs and Increase Your Profitable Hours Afloat by Using Higher Quality, Longer Lasting Woolsey Marine Paints on Your Boat

"CAWLUX" FACTS—"Cawlux" Marine Finish withstands continued exposure to salt, hot sun, scrubbing, hard wear...every punishment a fishing boat must undergo...far better than ordinary paints. This is because "Cawlux" is made with a special alkyd binder that "imprisons" and protects the world's finest pigments in a tough, impermeable, flexible film. Yet "Cawlux" costs but slightly more per gallon! On the hull, trim, decks, cabin, spars, and other topside surfaces, "Cawlux" looks far better far longer than the average marine paint.



"Cawlux" Whites come in Gloss, Semi-Gloss and Semi-Flat. Also available in a wide range of sea-tested colors. *It's false economy to use anything less than the best. Try Woolsey "Cawlux" this season...and you'll agree!*

"TRADEWINDS" FACTS—This highly toxic anti-fouling paint provides *season-long* freedom from barnacles, borers, grass and other attachments! For wood or steel bottoms, "Tradewinds" gives a smooth, tough finish in either Rich Red or Brilliant Green. May be applied over new wood or old paint in good condition, re-coated in 3 hours, launched after 4 hours.



Serving at Sea Since 1853

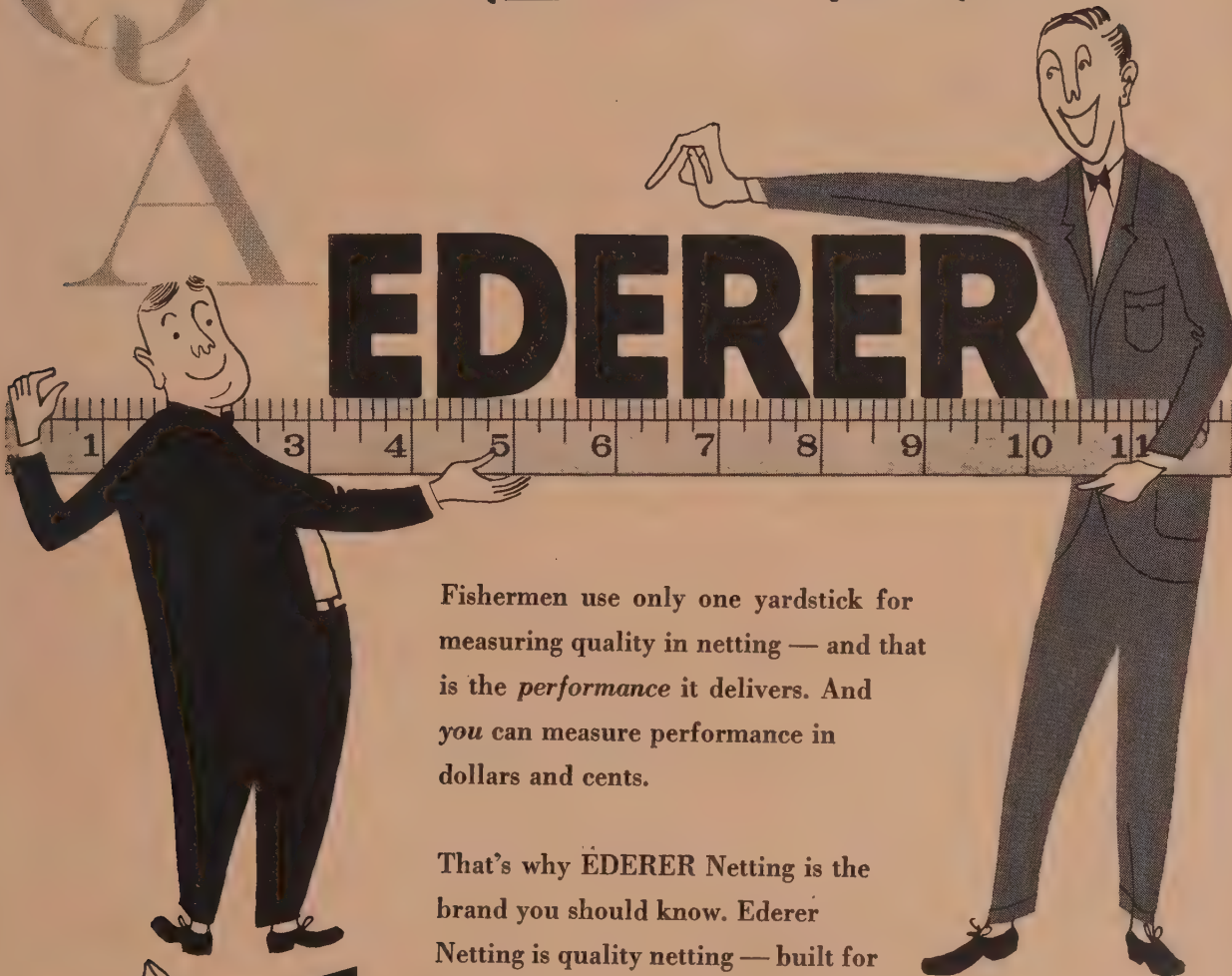
WOOLSEY
MARINE PAINTS

C. A. WOOLSEY PAINT & COLOR CO. INC. • 229 E. 42nd St., New York 17

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A
How do you measure quality?

EDERER



Fishermen use only one yardstick for measuring quality in netting — and that is the *performance* it delivers. And *you* can measure performance in dollars and cents.

That's why EDERER Netting is the brand you should know. Ederer Netting is quality netting — built for performance . . . built to give you greater value for your netting dollars.

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THE NEXT TIME
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THE LINEN THREAD CO., INC.

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more **BUMBLE BEE** seafood



is being carried in the shopping carts
of America than ever before...

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1. American consumers are demanding and buying more quality foods than at any time in the history of our country.
2. The fine quality of Bumble Bee Seafoods fulfills this demand and creates repeat customers.
3. Bumble Bee quality insures consumer value at prices which permit a substantial profit margin for the grocer.

Get ready now for spring and summer sales by streamlining your Seafood Section with America's most complete line of top-quality Seafoods under one packer's brand — BUMBLE BEE.

COLUMBIA RIVER PACKERS ASSOCIATION, Inc.
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Blueback Salmon
Puget Sound Sockeye Salmon
Columbia River Chinook Salmon
Cohoe Salmon Steak
Pink Salmon
Smoked Salmon
Fancy Solid White Tuna
Chunk White Tuna
Solid Pack Light Meat Tuna
Chunk Style Light Meat Tuna
Kippered Sturgeon
Shad Roe
King Crab Meat

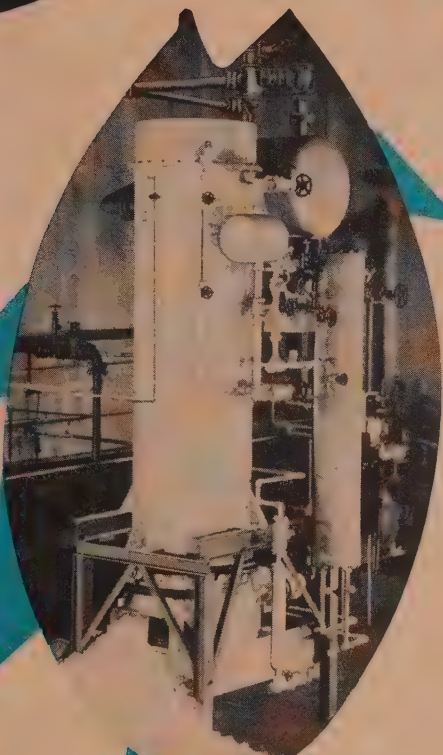
BUMBLE BEE FROZEN SEAFOODS

Fillet of Sole
Fillet of Flounder
Fillet of Perch
Fillet of Rockfish
Salmon Steak
Halibut Steak
Fish Sticks



ice on
demand
at the
lowest cost
per ton

Solve that
Ice Problem with
an Automatic
Tube-Ice
Machine



and here's why:

\$AVES SPACE: A 2000 Pound Capacity Package Unit occupies 14 1/2 sq. ft. of space and a 30 ton capacity custom built unit only 64 sq. ft.

\$AVES FREEZING TIME: Only 13 minutes needed to freeze, thaw and evacuate "crushed" Tube-Ice and 40 minutes for "cylinder" Tube-Ice.

\$AVES POWER: The Tube-Ice process utilizes direct application of the refrigerant to the ice freezing surfaces thereby eliminating all power costs incidental to brine systems.

\$AVES LABOR: Being wholly automatic in operation and discharging ice in its ultimate sized form, the self-contained Tube-Ice Machine unit requires no labor for harvesting the ice and only a minimum of supervision.

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hull, cargo and P.&I. underwriting and claims

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clippers,  cargo carriers, or passenger

ships, men of the sea like to do business with men

who know and understand the perils of the 

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BEST

MONEY-

MAKING

NETTING



ADAMS BEST ▶ is S-T-R-O-N-G netting. It stands up under rigid use.

ADAMS BEST ▶ is CAREFULLY designed netting, with firm knots and an even, true mesh size.

ADAMS BEST ▶ is QUALITY netting — made only of top-grade fibers for maximum service.



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Seaside Supply Stores Inc.
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San Pedro, Calif.

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Seattle, Wash.

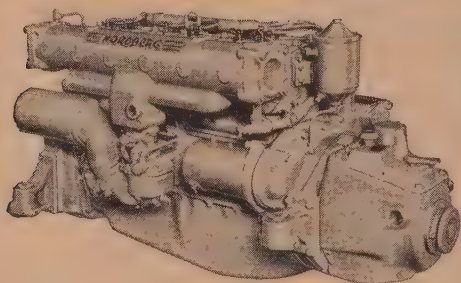
THE LINEN THREAD CO., INC.

116 NEW MONTGOMERY STREET
SAN FRANCISCO 5, CALIF.

look to Nordberg in 1956

NORDBERG

for a **NEW HIGH** in
performance and dependability



Each year, since the production of the first Nordberg Gasoline Marine Engine, new improvements in design and operation have helped to establish the ever-increasing popularity of these modern engines among fishing vessel owners and builders from coast to coast.

In 1956, all seven Nordberg Gasoline Marine Engine models, from the 60 hp **COLT** up through the power-packed 155 hp **KNIGHT**, will give you a *new high in performance and in dependability*... through additional refinements in design and construction that make the 1956 engine line the best ever to bear the famous *Nordberg* name. Mail the coupon for full details.

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SEATTLE—Pacific Fishing & Trading Co.
PORTLAND—Oregon Marine Supply Co.
SAN FRANCISCO—King-Knight Co.
WILMINGTON—In-Mar Co.

NORDBERG



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MAIL COUPON NOW

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Please send literature on Nordberg Gasoline Marine Engines.

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Address _____

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G156F

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NATIONAL BANK**

MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION

Washington's Statewide Bank

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Never before have waterproofs afforded the protection given fishermen by

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Pacific Fisheries Organizations

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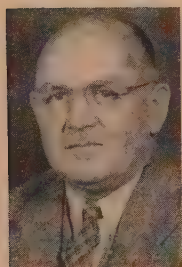
Edw. W. Allen

International Pacific Salmon Fisheries Commission, Dominion Building, New Westminster, B. C. — Chairman, Senator Thomas Reid; Director of Investigations, Loyd A. Royal.

International North Pacific Fisheries Commission, 209 Westbrook Bldg., University of British Columbia, Vancouver 8, B. C. — Chairman, Edward W. Allen, United States, Executive Director, Roy I. Jackson.



L. A. Royal



Milton James

Pacific Marine Fisheries Commission, 340 State Office Bldg., 1400 S. W. Fifth Avenue, Portland 1, Ore. — Chairman, Robert J. Schoettler; Coordinator, Milton James.



John C. Veatch

State of Oregon, Fish Commission, State Office Building, Portland 1, Oregon — Chairman, John C. Veatch; Director, M. T. Hoy.



H. A. Dunlop

Inter-American Tropical Tuna Commission, Scripps Institution of Oceanography, La Jolla, Calif. — Chairman, Miguel A. Corro, Panama; Director of Investigations, Dr. M. B. Schaefer.



R. J. Schoettler

Territory of Alaska, Department of Fisheries, Box 350, Juneau, Alaska — Director, C. L. Anderson; Chairman, Alaska Fisheries Board, Robert C. Kallenberg.

International Pacific Halibut Commission, Fisheries Hall No. 2, University of Washington, Seattle 5, Wash. — Chairman, Richard Nelson; Director of Investigations, H. A. Dunlop.



M. B. Schaefer

State of Washington, Department of Fisheries, 4015 - 20th Avenue West, Seattle 99, Wash. — Director, Robert J. Schoettler; Administrative Assistant, Donald P. Gooding; Technical Coordinator, Milo C. Bell.



C. L. Anderson



R. S. Croker

Dominion of Canada, Department of Fisheries, 1110 West Georgia St., Vancouver, B. C. — Chief Supervisor of Fisheries, A. J. Whitmore; Assistant Chief Supervisor, F. Warne; Division Engineer, C. H. Clay.

State of California, Department of Fish and Game, 926 "J" Street, Sacramento, Calif. — Director, Seth Gordon; Marine Fisheries Branch, Richard S. Croker, Chief.



A. J. Whitmore



John L. Kask

Fisheries Research Board of Canada, Ottawa, Canada — Chairman, Dr. John L. Kask; Pacific Advisory Committee, R. E. Walker, Vancouver, Chairman; Dr. N. M. Carter, Director, Pacific Fisheries Experimental Station, Vancouver; Dr. A. W. H. Needler, Director, Pacific Biological Station, Nanaimo, B. C.

Province of British Columbia, Provincial Department of Fisheries, Parliament Buildings, Victoria, B. C. — Minister, Hon. Ralph Chetwynd; Deputy Minister, Geo. J. Alexander.



G. J. Alexander

Pacific Fisheries Organizations

(Data as of Jan. 1, 1956)

Fish & Wildlife Service, Department of the Interior, Washington, D. C.—Director, John L. Farley; Assistant Director, Fisheries Division, A. J. Suomela.



John L. Farley

Regional Offices, Region One, Dept. of the Interior Bldg., P. O. Box 3737, Portland 8, Oregon—Regional Director, Leo L. Laythe; Asst. Regional Directors, Paul T. Quick, Samuel J. Hutchinson, Joseph T. Barnaby.

Alaska Regional Office, P. O. Box 2021, Juneau, Alaska—Administrator, Alaska Commercial Fisheries, Donald L. McKernan.

Pacific Salmon Investigations, 2725 Montlake Blvd., Seattle 2, Wash.—Chief, Clinton E. Atkinson.

Salmon Cultural Laboratory, Entiat, Wash.—Chief, Roger E. Burrows.

Salmon Nutrition Laboratory, Star Rt., Cook, Wash.—Chief, Dr. John E. Halver.

South Pacific Fishery Investigations, P. O. Box 271, La Jolla, Calif.—Chief, John C. Marr.

Western Fish-Cultural Investigations, 240 Fisheries Center, University of Washington, Seattle 5, Wash.—Biologist in charge, Dr. Robert R. Rucker.

Fishery Products Laboratory, Ketchikan, Alaska—Fishery Products Technologist in charge, Clarence J. Carlson.

Fishery Market Development, Ketchikan, Alaska—Fishery Marketing Specialist in charge, Fred W. Hipkins.

Market News Service, 208 Post Office Bldg., San Pedro, Calif.—Fishery Marketing Specialists, S. Ross Hatton and Victor J. Samson.

Market News Service, 212 Fisher Bldg., 176 11th St., Astoria, Oregon—Fishery Marketing Specialist, Edward Poysky.

Technological Investigations, 2725 Montlake Blvd., Seattle 2, Wash.—Chief, Maurice E. Stansby.

Fishery Education and Market Development Section, 2725 Montlake Blvd., Seattle 2, Wash.—Chief, Maurice E. Stansby.

Exploratory Development, 2725 Montlake Blvd., Seattle 2, Wash.—Chief, Donald E. Powell.

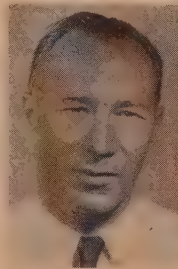
Market News Service, 421 Bell St. Terminal, Seattle 1, Wash.—Fishery Marketing Specialist, Charles M. Reardon.

Management Pribilof Island and Fur Seal Service, 706 Federal Office Bldg., Seattle 4, Wash.—General Manager, Clarence L. Olson.

Ocean Research Laboratory, Jordan Hall, Stanford University, Menlo Park, Calif.—Chief, Oscar E. Sette.

U. S. Fish & Wildlife Service, Market News Service, 421 Bell St. Terminal, Seattle, Wash.—Supervisory Market News Reporter in charge, Charles M. Reardon; Fishery Marketing Specialist, Statistics, Francis M. Wood.

Pacific Oceanic Fishery Investigations, P. O. Box 3830, Honolulu, T. H.—Director, Albert L. Tester.



A. L. Tester

GENERAL

School of Fisheries, University of Washington, 204 Fisheries Center, Seattle 5, Wash.—Director, Dr. Richard Van Cleave.



R. Van Cleave

Pacific Fisheries Biologists, Rt. 1, Box 31A, Clackamas, Ore.—President, Geo. Y. Harry.

Pacific Fisheries Conference, Northern Life Tower, Seattle, Wash.—Vice Chairman, Edward W. Allen; Secretary, Montgomery Phister.

Fisheries Research Institute, Fisheries Hall No. 2, University of Washington, Seattle 5, Wash.—Director, Dr. William F. Thompson.



W. F. Thompson



C. E. Jackson

Fisheries Council of Canada, P. O. Box 547, Ottawa, Ontario—President, J. N. Hyland, Vancouver, B. C.



J. N. Hyland



E. D. Clark

Pacific Fisheries Technologists, Oregon Seafoods Laboratory, Astoria, Ore.—President, Russell Sinnhuber; Secretary-Treasurer, Scott McLeod.

National Canners Association, Northwest Branch, 826 Skinner Bldg., Seattle, Wash.—Director, Dr. E. D. Clark; Chemist, Dr. G. Ivor Jones; Chemist, Walter V. Yonker.

DIRECTORY

Pacific Fisheries Organizations

(Data as of Jan. 1, 1956)



Geo. Steele

National Cannery Association, 1133 20th St. N. W., Washington 6, D. C.—President, George B. Morrill, Jr.; Executive Secretary, Carlos Campbell; Director, Fisheries Division, George Steele.



W. C. Morehead

California Fish Cannery Association, Ferry Bldg., Terminal Island, Calif.—President, Wm. C. Morehead; Executive Director, Charles R. Carry.

Monterey Fish Processors Association, Box 1424, Monterey, Calif.—President, Sebastian "Buster" Sollecito; Secretary-Treasurer, George Leutzinger; Consultant, George Clemens.



S. Sollecito

Fisheries Association of British Columbia, Room 510, Shelly Bldg., 119 West Pender St., Vancouver, B. C.—Chairman, J. M. Buchanan; Secretary, John MacDonald; Executive Assistant to the Chairman, R. F. Gadsby.



J. M. Buchanan

Northwest Salmon Cannery Association, Colman Bldg., Seattle, Wash.—President, Jack Brennan; Vice-President, Joseph R. Fribock.



Jack Brennan

Northern California Sea Food Institute, San Francisco, Calif.—President, Joseph P. Devincezi; Secretary-Treasurer, Joseph Tarantino.

Association of Pacific Fisheries, 200 Colman Bldg., Seattle 4, Wash.—President, E. E. Murray; Secretary, Dr. E. D. Clark.



E. E. Murray

American Seafood Distributors Association, 406 Southern Bldg., Washington 5, D. C.—President, Leo Weil, Louisville, Ky.; Counsel, Raymond E. Steele.

Alaska Native Brotherhood, Juneau, Alaska—Grand President, Patrick Paul, Angoon; Grand Secretary, Cyrus Peck, Juneau.

Alaska Native Brotherhood, Grand Camp P. O., Box 722, Sitka, Alaska.



John Mitchell

Puget Sound Salmon Cannery, Inc., 304 Spring St., Seattle, Wash.—President, John Mitchell; Executive Secretary, Herald A. O'Neill.



J. R. Jacobsen

Northwest Fisheries Association, Rm. 4, Ferry Dock, Seattle 4, Wash.—President, Palmer G. Olson; Executive Secretary, Charles R. Pollock.



C. R. Pollock

Pacific Herring Packers Association, 1844 Westlake No., Seattle 9, Wash.—President, J. R. Jacobson.



H. H. Thom

Prince Rupert Wholesale Fish Dealers Association, P. O. Box 9, Prince Rupert, B. C.—Vice-President & Manager, H. H. Thom.

Olympia Oyster Growers Association, P. O. Box 313, Olympia, Wash.—President, Burton J. Bowman; Secretary-Treasurer, Earl R. Brenner.

OPERATORS



Oscar Bergseth

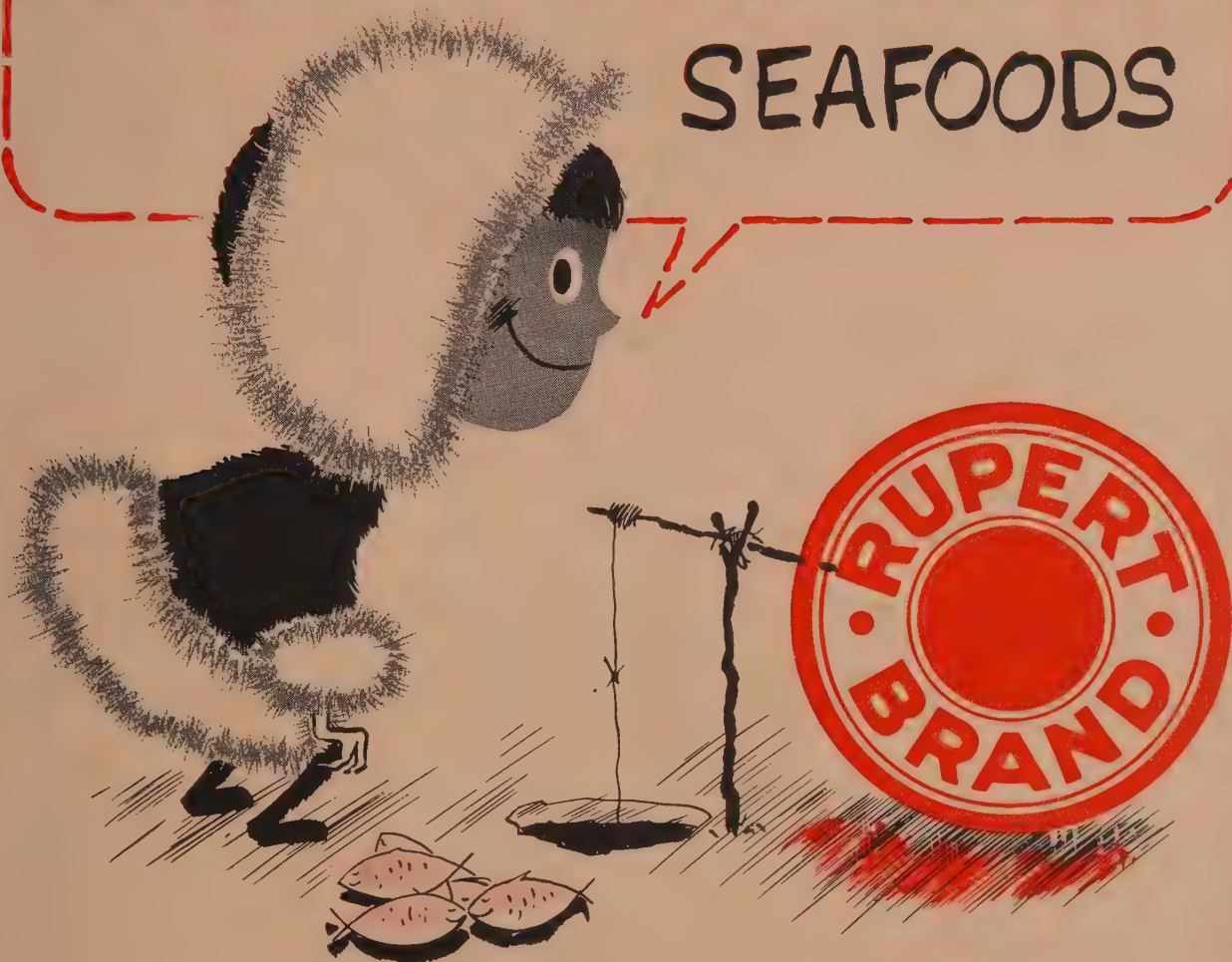
Alaska Salmon Industry, Inc., 200 Colman Bldg., Seattle 4, Wash.—President, Oscar Bergseth; Managing Director, W. C. Arnold.



J. H. Cellars

Columbia River Salmon & Tuna Packers Association, P. O. Box 60, Astoria, Oregon—Executive Secretary, James H. Cellars.

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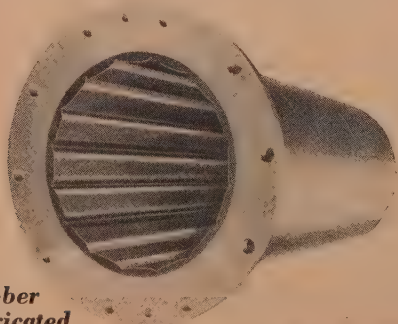
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(Data as of Jan. 1, 1956)



R. N. Steele

Pacific Coast Oyster Growers Association, Rm. 4, Ferry Dock, Seattle 4, Wash.—President, R. N. Steele; Vice-President, B. L. Taylor; Managing Director, Malcolm B. Edwards; Secretary-Treasurer, Charles R. Pollock.



H. F. Cary

American Tuna-Boat Association, 1 Tuna Lane, San Diego 1, Calif.—President, Joseph Penacho; General Manager, Harold F. Cary; Director of Research, Dr. Wilbert M. Chapman.



Mason Case

Fishermen's Cooperative Association, Fishermen's Wharf, Berth 73, San Pedro, Calif.—President, Nicholas Felando; Manager, Mason Case; Assistant Manager, Matt Dragich.

Southern California Fisheries Association, 1248 E. 6th St., Los Angeles 21, Calif.—President, Glen R. Baker; Executive Secretary, Bart A. Ghio.

Alaska Herring Skippers Association, 800 American Bldg., Seattle 4, Wash.—President, Bernt Gjerde; Business Manager, G. Bradley Dalton.

British Columbia Gillnetters Association, Room 207, 26 Lorene St., New Westminster, B. C.—President, Robert Karliner, Jr.; Vice-President, Frank Wilson; Secretary, R. Folley.

Fishermen's Co-operative Association, Pier 55, Seattle, Wash.—President, Adam Kanzler; Vice-President, Harry McCool; Secretary-Treasurer, B. G. Johnston.



B. G. Johnston

Cordova Aquatic Marketing Association, Inc., Box 359, Cordova, Alaska — President, Jack A. E. deVille.



J. DeVille

California Commercial Fishermen's Association, Inc., 745 South Seaside, Terminal Island, Calif.—President, R. C. Carpenter; Vice-President, Richard Karlsson.



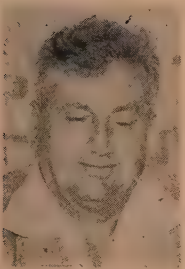
R. C. Carpenter

Juneau Fishing Vessel Owners Association, Box 668, Juneau, Alaska—President, John Lowell; Secretary-Treasurer, Edmund Krause.



T. H. Sorensen

Fishermen's Co-operative Federation, Box 340, Prince Rupert, B. C., and 2195 Commissioner St., Vancouver 6, B. C.—President, Perry York; General Manager, T. H. Sorensen; Secretary, K. F. Harding.



John Costanza

San Francisco Sardine Association, Pier 92, San Francisco 11, Calif.—President, John Costanza; Secretary-Treasurer, George J. Christo.

Shrimp Association of the Americas, Pan American Bldg., 1055 E. Elizabeth St., Brownsville, Texas—Executive Secretary, J. E. Barr.

Ketchikan Fishing Vessel Owners Association, P. O. Box 688, Ketchikan, Alaska—President, Nels Larsen.

Pacific Coast Fish Producers Institute, San Pedro, Calif.—Chairman, Mason Case; Vice-Chairman, Charles L. White, San Diego, Calif.; Secretary-Treasurer, Harold Lokken, Seattle, Wash.

Fishing Vessel Owners Association, Pier 59, Seattle, Wash.—President, Haaken Selvar; Manager, Harold E. Lokken.



H. E. Lokken

Puget Sound Gillnetters Association, 3417 Broadway Ave., Everett, Wash.—President, Joe Burrows; Vice-President, Lud Bretvick; Executive Secretary, Russ Benito.

Fishermen's Marketing Association, Carson Bldg., Eureka, Calif.—President, Fred Thebus; Vice-President, Arne Grotting; Secretary, W. O. Riley.

Salmon Trollers Marketing Association, Box 895, Fort Bragg, Calif.—Secretary-Treasurer, Mrs. Neva Miller.

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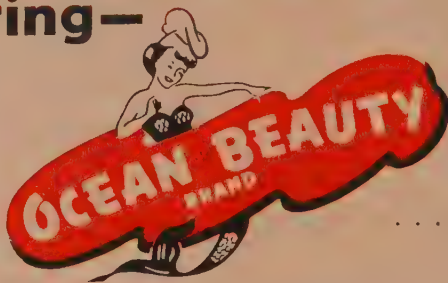
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Pacific Fisheries Organizations

(Data as of Jan. 1, 1956)



H. A. Christenson

Fishing Vessel Owners' Association of British Columbia, 193 E. Hastings St., Vancouver, B. C. — President, Ante Boroevich; Secretary-Manager, Harold A. Christenson.

Monterey Purse Seiners Association, 9 Municipal Wharf, Monterey, Calif. — Secretary, Horace Balbo.



Myrth Sarvela

Northern Fishing Vessel Owners Association, Sitka, Alaska — President, Guy Boggess; Vice-President, M. R. Karock; Secretary, Myrth Sarvela.



K. F. Harding

Prince Rupert Fishermen's Cooperative Association, P. O. Box 340, Prince Rupert, B.C. — President, Martin Erikssen; Secretary and Manager, K. F. Harding.

Fishermen's Marketing Association of Washington, Pier 59, Seattle, Wash. — President, Andrew Bud Bernard; Secretary-Treasurer, Manager, Nick P. Kuljis.



A. B. Bernard

Off-Shore Fishing Vessel Owners Association, P. O. Box 838, 51 Ninth St., Astoria, Oregon — President, Arthur J. Anderson; Treasurer, Sverre Koppen.



A. J. Anderson

Prince Rupert Fishing Vessel Owners' Association, Prince Rupert, B.C. — President, Harold Helland; Secretary, Hans Petersen.



H. Helland



J. J. Camillo

Lower California Fisheries Association, 935 West Harbor Drive, San Diego 1, Calif. — President, Anthony S. Chiappe; Business Manager, J. J. Camillo.



E. L. Haarsager

Pacific Coast Purse Seiners' Association, Pier 59, Foot of Pike St., Seattle 1, Wash. — President, E. L. Haarsager; Vice-President, Conrad Ness; Secretary, Arthur Edwards.



M. J. Svornich

Purse Seine Vessel Owners Association, 5301 North Ruby St., Tacoma, Wash. — President, M. J. Svornich; Secretary, Nick Mladnich.

LaConner Fishermen's Cooperative Association, LaConner, Wash. — Secretary-Manager, William Alvord.

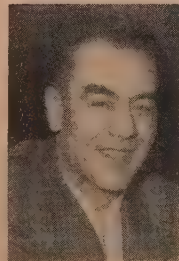
Masset Cooperative Association, Massett, B. C. — President, Noel Taylor; Secretary, George A. Hawkes.



L. Goulart

Monterey Fishermen's Association, Monterey, Calif. — President, Leonard Goulart; Secretary-Treasurer, Ernest Martins.

Petersburg Vessel Owners Association, Petersburg, Alaska — Secretary-Treasurer, Vernon A. Counter.



V. A. Counter

San Francisco Crab Boat Owners Association, 2907 Jones St., San Francisco, Calif. — President, Gaetano DiAngelo; Secretary-Treasurer, Emil Barbaro.



Victor Nigro



N. Cordileone

Southern California Fishermen's Association, 418 Harbor Lane, San Diego, Calif. — President, Victor Nigro; Vice-President, Jimmie Nigro; Secretary-Treasurer, Louis V. Nigro.

Pacific Fisheries Organizations

(Data as of Jan. 1, 1956)



J. M. Anderson

Washington Reef Net Owners Association, 2426 Chuckanut Shore Road, Bellingham, Wash. — President, Paul Gerard; Executive Secretary, Jerry M. Anderson.

UNIONS

Alaska Fishermen's Union, 84 Union St., Seattle, Wash. — Secretary-Treasurer, George Johansen.



Geo. Johansen

Alaska Fishermen's Council, Anchorage, Alaska.

Alaska Fishermen's Union (Independent), P. O. Box 1685, Ketchikan, Alaska — P. O. Box 74, Seldovia, Alaska.

Alaska Marine District Union of Fishermen, Cannery Workers and Allied Trades, SIU-AFL, P. O. Box 722, Sitka, Alaska — Secretary-Treasurer, Peter C. Nielsen.

Bering Sea Fishermen's Union, SIU-AFL, Dillingham, Alaska—Secretary-Treasurer, Jim Downey; Asst. Secretary-Treasurer, Fred Berglof.



Jim Downey

Bristol Bay Cannery Workers, Local 46, SIU-AFL, Dillingham, Alaska—Business Agent, Secretary-Treasurer, Jim Downey.

Cannery Workers Union of the Pacific, AFL, 450 Seaside Avenue, Terminal Island, Calif. — President, Thomas Ivey.

Cannery Workers and Fishermen's Union, 640 State St., San Diego 1, Calif. — Secretary-Treasurer, Lester Balinger.

Columbia River Fishermen's Protective Union, 166 10th St., Astoria, Oregon — Executive Secretary, Chas. F. Henne.



C. F. Henne

Copper River & Prince William Sound Cannery Workers (Independent), Cordova, Alaska.



H. Z. Hansen

Cordova District Fisheries Union, Box 939, Cordova, Alaska — Executive Secretary, Harold Z. Hansen.

Deep Sea Fishermen's Federal Union of B. C., Prince Rupert, B. C. — President, Hilmar Mork; Secretary, W. H. Brett.

Deep Sea Fishermen's Union of the Pacific, 5215 Ballard Ave., Seattle, Wash. — Secretary-Treasurer, Harold Grotle; Seattle Agent, Helge Pedersen.

Fishermen's Union Local 33, I. L. W. U., 339 7th St., San Pedro, Calif. — Secretary, Anthony D. Sokolich.

Fisheries Division, International Longshoremen's & Warehousemen's Union, 150 Golden Gate Avenue, San Francisco, Calif. — Regional Offices: Southern California, Director, F. T. Moore, 5851 Avalon Blvd., Los Angeles, Calif.; Northern California, Director, William Chester, 150 Golden Gate Ave., San Francisco, Calif.;

Northwest and Alaska, Director, William Gettings, 84 Union St., Seattle, Wash.



Joe Jurich

Local 3, Secretary, Joe Jurich, 84 Union St., Seattle, Wash.

Local 16-C, Secretary, D. D. Marks, Cannery Workers, Box 1195, Juneau, Alaska.

Local 22, Secretary, Max L. Haube, Box 237, Cannery Workers, Petersburg, Alaska.

Local 30, Secretary, John E. Rahm, Box 379, Ketchikan, Alaska.

Local 33, Secretary, Anthony Sokolich, 339 West 7th St., San Pedro, Calif.

Local 37, Secretary, Matias L. Lagunilla, Alaska Cannery Works, 213 Main St., Seattle, Wash.

Local 38, Secretary, Alice Still, 17 Commercial St., Eureka, Calif.

Local 20, Secretary, Rose Wilson, Van Camp Cannery Workers, 1201 Harbor Drive, San Diego, Calif.

Local 69, Secretary, Stella Shirey, Cannery Workers, Box 56, Ketchikan, Alaska.

Fish Cannery Workers and Fishermen's Union of the Pacific, San Francisco and Moss Landing Bay Areas Local. 257 Fifth St., Richmond 5, Calif. — Secretary-Treasurer, Charles F. Snyder; Assistant Secretary-Treasurer, Pete Guzman, San Francisco Branch, 16th and Capp Sts.; Moss Landing Branch, Box 34, Moss Landing, Calif.



C. F. Snyder

Pacific Fisheries Organizations

(Data as of Jan. 1, 1956)



Paul E. Graves

Otter Trawlers Union, Box 983, Astoria, Oregon
— President, Aldrich Veuhkola;
Vice-President, Arthur L. Anderson;
Secretary-Treasurer, Paul E. Graves.

Seine & Line Fishermen's Union of L. A., 261 West 7th St., San Pedro, Calif.—Business Agent-Secretary, John Calise.

United Fishermen of Alaska, AFL, P. O. Box 501A, Kodiak, Alaska—President, Bennett Groteclose; Secretary-Treasurer, P. J. Kerrigan.

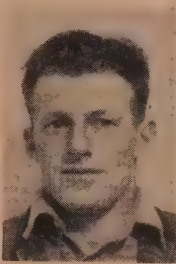
United Cannery Workers of Lower Cook Inlet, SIU-AFL, P. O. Box 105, Seldovia, Alaska.

United Fishermen of Lower Cook Inlet, SIU-AFL, P. O. Box 210, Seldovia, Alaska.

United Cannery Workers of Kodiak Island, SIU-AFL, P. O. Box 47, Kodiak, Alaska—President, Bennett Groteclose; Secretary-Treasurer, P. J. Kerrigan.

United Fishermen of Cook Inlet, SIU-AFL, P. O. Box 861, Anchorage, Alaska.

Shoalwater Bay Oyster Workers Union, Local No. 14, SIU-AFL, Nahcotta, Wash.
— Secretary, Ott Rutzer.



Ott Rutzer

United Fishermen & Allied Workers' Union, 138 East Cordova St., Vancouver 4, B. C.—President, H. (Steve) Stavenes; Secretary, Homer Stevens; Business Agent, Alex Gordon.

Wrangell Cannery Workers' Union of Alaska, SIU-AFL, P. O. Box 215, Wrangell, Alaska.

Yakutat Marine District Union, SIU-AFL, Yakutat, Alaska—Secretary, John O. Williams.

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Alaska	665,961	\$17,747,703	1,266,674	\$28,834,545	371,369	\$ 7,101,467	118,545	\$3,338,584	47,197	\$1,409,066	2,469,746	\$58,431,365
Washington	89,486	3,205,504	411,207	9,366,505	85,125	1,585,681	62,353	1,860,856	25,565	876,529	673,736	16,895,075
Oregon	2,986	135,172	...	...	5,378	100,722	20,016	673,627	112,216	4,168,766	140,596	5,078,287
California	...	...	...	...	...	...	361	11,552	486	16,038	847	27,590
TOTAL U.S.A.	758,433	21,088,379	1,677,881	38,201,050	461,872	8,787,870	201,275	5,884,619	185,464	6,470,399	3,284,925	80,432,317
British Columbia	244,900	9,061,300	830,602	14,950,836	125,219	1,878,285	185,705	5,199,740	19,804	554,512	1,406,230	31,644,673
GRAND TOTAL	1,003,333	\$30,149,679	2,508,483	\$53,151,886	587,091	\$10,666,155	386,980	\$11,084,359	205,268	\$7,024,911	4,691,155	\$112,076,990

NOTE: - Salmon shipped from Alaska and canned elsewhere are included, as far as possible, in the Alaska pack. The Washington pack includes considerable fish imported from British Columbia and canned on Puget Sound.

North America's canned salmon production in 1955 dipped under 5,000,000 cases for the first time since 1921.

Pack of Reds and Sockeyes was the lowest in the industry's history, while Chum packing ran at the lowest level since 1921.

• North American 1955 canned salmon production fell below 5,000,000 cases for the first time since 1921—when the controlling factor was economic rather than biologic.

The North American total of 4,691,155 cases compared with an average for the previous 10 years of 6,252,000 cases.

Value of the 1955 canned salmon pack, United States and Canada combined, was \$112,076,990, of which the United States' share was \$80,432,317.

• Alaska's 1955 pack of 2,469,746 cases was the smallest packed there since 1910, when the industry had not yet attained full stature.

This compared with a territorial average pack for the preceding 10 years of 3,759,128 cases. All species save Coho were far below the recent average, Reds, with less than two-thirds of a million cases, making a particularly dismal record.

The Puget Sound pack of 639,125 cases, while relatively better than Alaska, also fell far below expectations, due mainly to the short production of Chums, a species which was everywhere deficient in 1955.

The Columbia River actually bettered its figures of the year before, although the total of 164,018 cases was far below the average of 207,000 cases for the preceding decade. The notable factor on the river was the substantial increase in the spring and early summer Chinook runs, which showed worthwhile recovery, although the August run, which had been the mainstay of the river's pack, failed for the fourth consecutive year.

• An interesting aspect of the 1955 canned salmon production was the packing of 73,640 cases of 4-lb. cans in Alaska and Puget Sound, largely Cohoes, but with substantial quantities of Pinks and Sockeyes also.

At the other extremity of can sizes,

quarters were quite popular on Puget Sound, where 54,415 full cases of these little cans were produced.

• North American salmon season of 1955 was disappointing, actually one of the poorest on record in Alaska at least.

The year had not been expected to be good, neither had it been expected to be as poor as actually was the case. This adds up to "disappointing", a term which most operators, fishermen and packers together, will regard as a definite understatement.

• Among the broad characteristics of the 1955 salmon crop were at least two which, generally applicable around the entire circle of salmon occurrence from California to Honshu, provide some evidence of the hemispheric relationship of stocks, and the influence upon them of natural condition in the sea.

First, there was the scarcity of

Since 1894

Halferthy

SEATTLE, U.S.A.

1955 -PACIFIC CANNED SALMON PACK- 1955

(Figures reduced to uniform basis of 48-lb. (full case) units. Alaska pack includes fish shipped from Alaska and canned elsewhere.)

Species	Alaska	Puget Sound	Columbia River	Coastal Areas	Total U. S.	British Columbia	Grand Total
Red or Sockeye	665,961	85,767	3,242	3,463	758,433	244,900	1,003,333
Pink	1,266,674	411,207	---	---	1,677,881	830,602	2,508,483
Chum or Keta	371,369	73,856	9,190	7,457	461,872	125,219	587,091
Coho or Silver	118,545	60,956	21,392	382	201,275	185,705	386,980
Chinook or King	47,197	7,339	116,138	734	171,408	18,003	189,411
Steelhead	---	---	14,056	---	14,056	1,801	15,857
TOTAL	2,469,746	639,125	164,018	12,036	3,284,925	1,406,230	4,691,155

Chums. Where in 1954 Chums had been everywhere abundant, and extremely fine in quality, in 1955 they were scarce in all areas. Quality was fair, perhaps not as good as in the great Chum year of 1954, but the number of the species available to the fishery declined staggeringly.

British Columbia had one of the poorest Chum years in its history, following directly upon one of the best.

Some observers, fishermen, packers, scientists, saw cause-and-effect in this swing from abundance one year to scarcity the next. Perhaps the great

year class which matured in 1954 by its vigor and abundance during its freshwater period had drained the rearing capacity of the waters to the point where the successive class suffered. Scientific backing for this? No, because no one knows, or does, much about Chums; and the correlation of

NORTH AMERICAN CANNED SALMON PACK

Year	Red, Sockeye or Blueback	Pink	Chum or Keta	Medium Red, Coho or Silverside	King or Chinook	Steelhead Trout	Total Cases	Year
1898	1,594,162	109,399	51,530	282,589	398,564	26,277	2,462,521	1898
1899	2,153,388	401,892	61,932	261,071	334,974	11,994	3,225,251	1899
1900	2,046,908	232,022	155,208	208,026	338,493	20,597	3,001,254	1900
1901	3,801,730	585,017	86,230	126,535	455,395	20,000	5,074,907	1901
1902	2,702,045	549,602	313,603	227,031	379,641	8,593	4,180,515	1902
1903	2,231,555	564,507	61,232	330,319	403,836	7,251	3,598,700	1903
1904	1,950,949	299,333	168,235	168,235	444,472	9,868	3,041,092	1904
1905	3,488,322	253,559	138,642	269,806	443,794	9,822	4,603,945	1905
1906	2,122,204	416,602	450,151	397,346	424,974	6,500	3,817,777	1906
1907	1,707,813	1,114,100	272,135	397,786	354,209	6,604	3,852,647	1907
1908	2,186,325	726,656	303,837	386,745	379,171	11,863	3,994,597	1908
1909	3,671,555	882,410	218,987	373,567	262,554	17,382	5,426,455	1909
1910	2,274,780	589,043	555,908	521,966	372,901	5,576	4,320,174	1910
1911	1,869,927	2,373,595	592,790	676,141	627,714	8,618	6,104,887	1911
1912	2,544,435	1,556,128	808,630	621,817	426,338	7,198	5,956,953	1912
1913	4,643,425	2,392,166	432,812	300,033	285,472	9,539	8,063,447	1913
1914	3,121,964	1,222,013	1,200,433	579,980	509,100	11,292	6,644,782	1914
1915	2,492,865	2,825,570	1,107,707	551,821	641,979	29,650	7,639,592	1915
1916	2,432,048	2,036,077	1,500,332	715,815	646,341	24,999	7,355,512	1916
1917	3,248,843	3,929,332	1,648,313	588,749	673,980	35,677	10,124,894	1917
1918	2,987,710	2,953,245	2,175,031	838,088	697,140	41,086	9,692,300	1918
1919	1,707,846	2,426,414	2,367,481	793,175	704,195	24,392	8,023,503	1919
1920	1,892,691	2,138,959	1,175,001	361,566	705,050	16,054	6,289,321	1920
1921	2,034,310	1,038,090	359,947	362,943	419,508	11,362	4,226,160	1921
1922	2,480,811	2,241,760	908,283	510,919	353,588	26,640	6,522,001	1922
1923	2,309,142	3,371,917	1,120,591	534,225	389,802	27,757	7,753,434	1923
1924	1,902,832	3,295,739	1,835,251	542,682	406,096	31,270	7,990,543	1924
1925	1,581,792	3,111,320	1,803,371	667,817	550,071	17,248	7,731,610	1925
1926	2,550,771	4,101,422	1,762,134	607,778	485,783	86,233	9,544,126	1926
1927	1,738,054	2,241,304	1,217,338	642,522	538,574	33,377	6,411,169	1927
1928	2,214,498	3,583,433	2,165,652	602,203	354,798	17,492	8,938,076	1928
1929	2,100,787	3,775,764	1,541,213	564,826	375,497	24,821	8,382,908	1929
1930	1,710,018	4,266,301	1,085,351	758,451	427,282	18,509	8,265,912	1930
1931	2,084,385	3,890,755	671,574	388,140	418,483	13,679	7,467,016	1931
1932	2,484,459	2,341,966	1,313,537	446,706	394,530	14,386	6,995,984	1932
1933	2,579,891	3,259,341	1,021,547	402,107	343,442	19,486	7,625,814	1933
1934	3,354,863	4,261,262	1,362,905	596,951	352,752	16,183	9,944,916	1934
1935	1,232,852	4,139,114	1,303,216	596,117	279,693	15,484	7,566,476	1935
1936	2,968,184	5,181,954	1,846,675	533,285	313,795	20,350	10,864,243	1936
1937	2,494,302	4,532,487	1,233,999	369,916	385,986	18,412	9,035,372	1937
1938	3,125,176	3,623,435	1,387,245	595,380	234,520	16,283	8,982,039	1938
1939	2,280,088	3,412,392	1,054,858	472,239	254,930	26,090	7,500,597	1939
1940	1,402,999	3,124,292	1,553,389	592,395	286,485	34,443	6,994,003	1940
1941	1,763,852	5,218,427	1,770,225	831,279	422,989	36,597	10,043,369	1941
1942	1,860,044	3,088,724	1,723,193	616,687	343,369	26,507	7,658,524	1942
1943	2,169,091	2,913,760	1,258,239	377,160	196,000	19,357	6,933,608	1943
1944	1,869,365	2,478,750	1,239,548	383,040	223,088	23,143	6,216,934	1944
1945	1,556,200	3,374,192	1,041,387	457,680	194,056	22,125	6,645,640	1945
1946	1,893,469	2,176,817	1,267,478	316,968	230,811	21,880	5,907,423	1946
1947	2,197,569	2,962,281	1,127,496	438,087	366,620	25,325	7,117,378	1947
1948	1,994,733	1,630,411	1,551,190	577,726	354,475	26,027	6,134,562	1948
1949	1,335,248	3,946,309	946,615	492,871	229,031	11,305	6,961,380	1949
1950	1,698,290	1,544,327	1,816,745	468,768	215,114	13,777	5,757,022	1950
1951	1,364,419	2,737,445	1,443,330	779,725	258,530	18,517	6,601,966	1951
1952	1,862,844	1,850,890	1,375,214	461,629	168,150	22,763	5,741,490	1952
1953	1,672,714	2,189,770	1,359,134	317,314	170,614	22,369	5,731,915	1953
1954	2,004,548	1,486,676	1,910,330	343,203	144,013	17,113	5,905,883	1954
1955	1,003,333	2,508,483	587,091	386,980	189,411	15,857	4,691,155	1955
10 Yr. Average	1,758,003	2,389,912	1,383,890	465,397	233,141	20,120	6,250,464	10 Yr. Average

NOTE: - Figures represent full cases of 48 lbs. net. "Average" is for the ten years preceding the current year. Figures for the last year shown are from PACIFIC FISHERMAN'S compilation; those

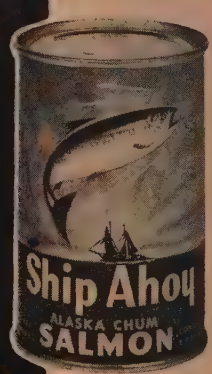
canned **S** almon

from the **H** eight of the run

handled **I** ntelligently

by people of **E** xperience

with profound **L** oyalty to customers



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CANNED SALMON DISTRIBUTORS

5506 WHITE-HENRY-STUART-BUILDING
SEATTLE 1, WASHINGTON

Representing

EGEGIK PACKING CO.
INTERCOASTAL PACKING CO.
NORTHERN COMMERCIAL CO.

SAN JUAN FISHING & PACKING CO.
TODD PACKING CO.

PACK OF ALASKA CANNED SALMON BY DISTRICTS

Year	SOUTHEAST ALASKA										CENTRAL ALASKA										WESTERN ALASKA										TOTAL CASES	Year
	Plants Operated	Red	Pink	Chum	Colo	King	Total Cases	Plants Oper.	Red	Pink	Chum	Colo	King	Total Cases	Plants Oper.	Red	Pink	Chum	Colo	King	Total Cases	Plants Operated										
1905	13	207,375	142,008	37,685	41,079	5,460	433,607	9	345,575	3,225	...	16,518	6,427	371,755	25	1,021,478	23,354	4,287	9,797	30,238	1,089,154	47	1,894,516									
1906	20	250,567	328,713	131,405	84,149	2,396	795,290	8	451,659	3,188	...	10,516	7,861	473,024	19	798,504	19,866	123,407	16,278	20,680	20,680	978,735	47	2,246,989								
1907	22	177,146	542,268	140,392	56,632	1,289	919,720	8	482,968	10,285	...	15,238	6,416	425,721	18	657,667	18,244	40,025	11,764	27,794	759,534	48	2,202,100									
1908	23	196,346	592,638	180,204	48,963	2,552	1,022,732	8	577,101	50,661	...	11,543	6,416	431,054	18	1,097,211	20,834	38,309	8,426	14,824	1,697,794	50	2,403,669									
1909	19	280,542	465,999	83,001	39,920	657	860,518	8	556,285	5,561	...	10,275	16,513	393,024	18	1,074,667	3,293	37,111	6,361	30,264	1,552,966	45	2,403,669									
1910	23	282,265	462,363	291,735	82,620	402	1,091,383	10	564,678	31,797	...	13,197	15,866	432,571	19	825,447	31,348	22,352	11,641	24,087	1,548,138	52	2,438,777									
1911	5	254,851	969,896	580,572	100,789	1,441	1,601,638	11	412,647	136,861	...	29,591	15,866	471,986	21	669,163	27,347	19,969	11,585	28,075	1,548,138	52	2,438,777									
1912	51	254,851	1,053,641	524,689	138,074	6,607	2,033,777	14	422,347	136,861	...	29,591	15,866	471,986	21	669,163	27,347	19,969	11,585	28,075	1,548,138	52	2,438,777									
1913	42	254,851	1,053,641	524,689	138,074	6,607	2,033,777	14	422,347	136,861	...	29,591	15,866	471,986	21	669,163	27,347	19,969	11,585	28,075	1,548,138	52	2,438,777									
1914	46	254,851	1,053,641	524,689	138,074	6,607	2,033,777	14	422,347	136,861	...	29,591	15,866	471,986	21	669,163	27,347	19,969	11,585	28,075	1,548,138	52	2,438,777									
1915	46	254,851	1,053,641	524,689	138,074	6,607	2,033,777	14	422,347	136,861	...	29,591	15,866	471,986	21	669,163	27,347	19,969	11,585	28,075	1,548,138	52	2,438,777									
1916	54	182,079	1,320,171	505,405	182,405	18,482	2,223,458	17	570,000	371,945	...	64,320	15,393	656,504	23	1,121,622	29,469	19,969	11,585	28,075	1,548,138	52	2,438,777									
1917	60	202,951	1,133,075	750,147	152,405	18,482	2,223,458	18	725,925	371,945	...	64,320	15,393	656,504	23	1,121,622	29,469	19,969	11,585	28,075	1,548,138	52	2,438,777									
1918	75	226,108	1,524,997	954,488	152,689	17,248	3,385,540	26	725,925	371,945	...	64,320	15,393	656,504	23	1,121,622	29,469	19,969	11,585	28,075	1,548,138	52	2,438,777									
1919	75	226,108	1,524,997	954,488	152,689	17,248	3,385,540	26	725,925	371,945	...	64,320	15,393	656,504	23	1,121,622	29,469	19,969	11,585	28,075	1,548,138	52	2,438,777									
1920	80	199,828	1,524,997	954,488	152,689	17,248	3,385,540	26	725,925	371,945	...	64,320	15,393	656,504	23	1,121,622	29,469	19,969	11,585	28,075	1,548,138	52	2,438,777									
1921	30	105,084	416,958	182,272	90,845	9,034	604,193	27	596,200	13,116	...	28,305	11,425	67,744	20,417	1,279,755	28	742,839	76,222	44,048	37,990	913,478	143	4,591,110								
1922	57	121,652	1,313,280	425,940	128,023	5,777	1,994,679	36	567,576	331,005	...	38,321	3,623	8,330	1,032,455	27	1,057,510	37,029	7,513	29,080	1,141,509	84	4,591,110									
1923	67	178,962	2,257,768	434,950	129,990	12,857	3,041,067	39	441,774	197,291	...	72,821	3,623	8,330	1,032,455	30	1,157,594	46,316	49,713	10,332	14,583	1,887,591	134	5,063,340								
1924	65	192,806	1,686,884	799,215	110,002	8,259	3,797,166	38	441,774	197,291	...	72,821	3,623	8,330	1,032,455	30	1,157,594	46,316	49,713	10,332	14,583	1,887,591	134	5,063,340								
1925	62	151,140	1,701,849	835,599	94,539	12,493	3,797,166	37	441,774	197,291	...	72,821	3,623	8,330	1,032,455	29	1,157,594	46,316	49,713	10,332	14,583	1,887,591	134	5,063,340								
1926	61	173,891	1,584,699	618,397	96,389	10,679	3,041,067	38	441,774	197,291	...	72,821	3,623	8,330	1,032,455	29	1,157,594	46,316	49,713	10,332	14,583	1,887,591	134	5,063,340								
1927	62	115,684	1,584,699	618,397	96,389	10,679	3,041,067	38	441,774	197,291	...	72,821	3,623	8,330	1,032,455	29	1,157,594	46,316	49,713	10,332	14,583	1,887,591	134	5,063,340								
1928	60	166,793	1,584,699	618,397	96,389	10,679	3,041,067	38	441,774	197,291	...	72,821	3,623	8,330	1,032,455	29	1,157,594	46,316	49,713	10,332	14,583	1,887,591	134	5,063,340								
1929	59	166,793	1,584,699	618,397	96,389	10,679	3,041,067	38	441,774	197,291	...	72,821	3,623	8,330	1,032,455	29	1,157,594	46,316	49,713	10,332	14,583	1,887,591	134	5,063,340								
1930	57	216,743	2,296,270	283,553	155,844	6,982	2,962,197	62	431,924	643,819	...	378,499	15,066	32,567	1,638,872	29	1,075,454	46,316	49,713	10,332	14,583	1,887,591	134	5,063,340								
1931	41	148,465	2,038,388	277,225	88,841	14,326	2,962,197	62	431,924	643,819	...	378,499	15,066	32,567	1,638,872	29	1,075,454	46,316	49,713	10,332	14,583	1,887,591	134	5,063,340								
1932	31	140,356	1,477,608	425,280	88,238	23,637	2,038,358	31	468,528	720,698	...	145,680	32,317	1,618,772	22	1,304,832	15,567	38,178	695	12,755	1,652,413	82	5,260,688									
1933	38	81,122	1,380,093	482,869	95,629	8,130	2,038,358	31	468,528	720,698	...	145,680	32,317	1,618,772	22	1,304,832	15,567	38,178	695	12,755	1,652,413	82	5,260,688									
1934	47	104,413	2,622,186	393,904	159,509	15,606	3,295,618	45	707,754	1,198,457	...	302,011	47,198	24,338	2,315,697	22	1,813,851	1,959	3,502	1,219	8,766	1,856,271	114	6,458,888								
1935	46	159,506	2,209,373	593,152	141,501	11,496	3,065,028	44	391,088	1,045,155	...	302,011	47,198	24,338	2,315,697	22	1,813,851	1,959	3,502	1,219	8,766	1,856,271	114	6,458,888								
1936	46	219,531	2,959,774	784,445	136,043	22,105	4,121,908	46	459,399	1,498,658	...	295,956	80,608	31,820	2,846,212	24	1,423,781	30,911	26,572	1,581	3,983	1,466,828	116	8,145,826								
1937	45	165,170	2,138,284	473,616	140,791	16,339	3,276,733	42	484,518	1,338,000	...	253,905	75,596	20,146	2,170,165	17	1,346,726	35,335	345	5,399	6,241	1,520,100	116	8,145,826								
1938	39	199,880	1,886,104	293,316	140,791	16,339	3,276,733	42	484,518	1,338,000	...	253,905	75,596	20,146	2,170,165	17	1,346,726	35,335	345	5,399	6,241	1,520,100	116	8,145,826								
1939	48	195,997	1,474,266	473,616	140,791	16,339	3,276,733	42	484,518	1,338,000	...	253,905	75,596	20,146	2,170,165	17	1,346,726	35,335	345	5,399	6,241	1,520,100	116	8,145,826								
1940	46	137,861	1,452,057	484,474	165,577	1,539	2,219,017	42	484,518	1,338,000	...	253,905	75,596	20,146	2,170,165	17	1,346,726	35,335	345	5,399	6,241	1,520,100	116	8,145,826								
1941	47	121,063	1,763,741	597,373	189,210	2,033	2,668,779	44	532,287	1,277,915	...	328,608	66,311	37,421	1,948,708	14	1,314,575	1,532	42,410	1,718	11,676	1,370,371	81	5,068,108								
1942	47	121,063	1,763,741	597,373	189,210	2,033	2,668,779	44	532,287	1,277,915	...	328,608	66,311	37,421	1,948,708	14	1,314,575	1,532	42,410	1,718	11,676	1,370,371	81	5,068,108								
1943	38	131,380	1,081,534	265,186	89,380	1,765	1,584,847	45	491,718	1,092,068	...	31,654	85,506	30,718	1,870,245	13	869,432	1,623	92,039	3,103	9,086	712,015	108	4,397,176								
1944	31	129,514	1,038,521	265,186	107,425	1,765	1,584,847	45	491																							



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WESTERN ALASKA CANNED SALMON PACKS

BRISTOL BAY AND YUKON (Cases)						YEAR	ALASKA PENINSULA, NORTH SIDE (Cases)						GRAND TOTAL
Reds	Pinks	Chums	Cohoos	Kings	TOTAL		Reds	Pinks	Chums	Cohoos	Kings	TOTAL	
1,588,008	...	24,559	1,456	9,197	1,623,220	1933	26,665	....	1,490	....	284	28,439	1,651,659
1,726,769	1,959	32,222	1,219	8,580	1,770,759	1934	87,379	....	974	....	217	88,570	1,859,329
231,014	....	6,995	223	660	238,892	1935	34,920	4	2,862	....	175	37,961	1,776,853
1,388,776	30,773	25,045	1,571	4,092	1,450,257	1936	38,930	293	1,511	....	214	40,948	1,491,205
1,421,369	....	29,286	138	6,897	1,457,690	1937	55,315	1	6,170	....	234	61,720	1,519,410
1,772,885	....	54,551	345	5,446	1,833,227	1938	73,942	....	5,063	....	1,053	80,058	1,913,285
1,059,181	....	88,272	....	5,038	1,152,491	1939	56,310	2	6,478	....	465	63,255	1,215,746
402,899	16,081	30,624	1,445	3,504	454,553	1940	56,158	....	4,914	....	79	61,151	515,704
577,024	9	50,901	3,436	5,785	637,155	1941	36,366	95	4,953	....	179	41,593	678,748
438,053	8,564	16,749	2,638	7,001	473,005	1942	....	....	....	....	....	....	473,005
1,275,212	....	37,757	180	11,826	1,324,975	1943	39,330	54	3,680	....	56	43,120	1,368,095
954,694	3,911	31,838	2,408	5,420	998,271	1944	31,849	130	12,855	....	21	44,855	1,043,126
576,318	....	66,888	3,105	9,478	655,789	1945	32,342	127	25,007	....	22	57,498	723,287
628,240	4,073	36,436	2,663	10,768	682,180	1946	27,821	....	1,798	....	167	29,786	711,966
1,335,031	....	35,802	1,866	13,737	1,386,436	1947	25,675	....	6,047	8	71	31,801	1,418,237
1,212,233	3,148	64,167	4,140	13,576	1,297,264	1948	65,961	101	17,474	1,220	310	85,066	1,382,330
525,309	....	33,345	2,214	13,795	574,663	1949	10,612	....	2,954	2,349	179	16,094	590,757
577,158	1,607	16,588	2,840	13,217	611,410	1950	10,335	2	18,294	4,098	158	32,887	654,162
309,936	....	15,744	4,366	15,086	345,132	1951	29,656	75	9,777	3,637	242	43,387	388,519
715,083	1,339	31,457	1,661	19,236	768,776	1952	14,477	....	7,379	6,031	123	28,010	796,786
443,137	1	36,921	78	20,319	500,456	1953	17,391	1,175	9,157	3,301	396	31,420	531,876
307,469	4,441	31,694	1,630	8,453	353,687*	1954	12,352	5,103	7,308	3,387	510	28,660	382,347
313,632	....	20,293	991	13,182	348,098	1955	20,508	91	2,266	550	474	23,889	382,197
694,355	1,461	38,933	2,555	15,085	752,389	Aver.	26,713	667	10,747	2,458	265	40,850	793,239

* Includes 10,744 cases of Kings, packed in the Yukon-Kuskokwim district. NOTE: - Figures are based on U.S. Fish & Wildlife Service final data, which DO NOT include fish caught in these areas and canned elsewhere, accordingly are somewhat different from those in other tables compiled independently by Pacific Fisherman. Figures for the latest year shown are preliminary. "Average" figures are for last ten years. Bristol Bay totals and Grand totals include fish packed in Yukon-Kuskokwim district.

abundance and scarcity between the succeeding salmon classes is not generally understood.

● Size of individual fish was another general characteristic shared by the salmon caught in 1955; and this was broadly true over the whole range of the salmon, and with respect to all five species.

Cause was unknown, but believed

to be related to unfavorable conditions in the sea; possibly also having some connection to the decline in abundance of Chums.

The small average size of fish was manifest in the Asian fishery as well as in that of America. While many fishermen and operators believe that the small average size of the Japanese high seas salmon was due to catching fish before the year of their maturity,

the fact remains that average size in that catch undoubtedly was a matter of surprise to the Japanese. This is evidenced by the fact that in mid-season the Japanese industry, announced an arbitrary reduction in the agreed price of salmon, due to their subnormal size.

The run of Sockeye to the Fraser River was a particularly striking example of this tendency toward small

DATA ON BRISTOL BAY OPERATIONS

YEAR	Number of Canneries Operated	Canning Lines in Operation	Number of Other Operations	Total Boats Fishing Salmon	Total Set Nets Fishing	Total Fathoms of Gear Operated	Number of Salmon Caught	Canned Salmon Pack (full cases)	Number of Salmon Used for Other Purposes than Canning (or Shipped Uncanned)	YEAR
1930	25	114	4	868	113	168,975	4,405,378	405,892	62,334	1930
1935	8	15½	3	181	169	35,600	3,116,493	245,047	75,140	1935
1936	23	91	8	1,102	410	170,900	21,051,695	1,450,856	164,996	1936
1937	22	83	7	1,086	313	166,750	21,282,098	1,459,450	107,068	1937
1938	17	67	...	1,006	189	160,350	25,295,927	1,834,436	(None)	1938
1939	22	96	2	1,219	268	196,250	14,300,806	1,154,921	7,644	1939
1940	8	36	11	503	233	87,100	5,318,481	446,513	136,507	1940
1941	16	50	3	791	225	129,900	6,958,140	642,977	30,472	1941
1942	6	12*	...	224	65	36,850	6,732,502	469,624	(None)	1942
1943	11	33	...	633	158	102,850	17,749,837	1,320,286	(None)	1943
1944	12	35	1	655	187	106,780	11,957,230	982,802	8,840	1944
1945	8	17	7	316	207	58,250	7,978,607	644,072	68,546	1945
1946	16	42	11	777	215	126,150	8,406,905	682,180	175,951	1946
1947	17	49	7	928	340	142,064	18,937,386	1,376,722	130,655	1947
1948	20	59	2	1,053	403	178,730	15,156,876	1,316,168	66,492	1948
1949	19	32	8	731	467	132,115	6,805,568	563,020	202,415	1949
1950	13	26	17	520	516	102,095	7,402,764	586,555	364,122	1950
1951	16	28½	20	717	504	119,120	4,615,607	342,075	672,740	1951
1952	21	46½	17	1,118	463	187,575	11,464,559	758,809	1,584,839	1952
1953	15	33	17	1,153	345	290,200	6,541,852	488,083	754,298	1953
1954	12	16*	15	712**	313	120,795	5,235,803	357,254	943,023	1954
1955	10	17½*	20	861**	328	148,625	4,630,292	347,970	523,440	1955

NOTE: -Data in this table, compiled by U.S. Fish & Wildlife Service, are for Bristol Bay area only - NOT including the Yukon-Kuskokwim, Port Heiden or Herendeen Bay - Port Moller districts. Figures for boats and gear include those used in connection with salt-eries and freezers. Figures for the canned pack (preliminary compilation of Fish & Wildlife Service) are different from those in other tables in this issue.

Data for last year are preliminary only, subject to later correction.

* In addition to the lines shown, 3 hand-pack lines were operated in 1954 and one in 1955.

** Of the boats fishing in 1954, 15 were sailboats with outboard motor auxiliaries; of those in 1955, approximately 3 were sailboats with outboard power. No power boats were permitted prior to 1951.

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SALMON

WESTERN ALASKA

1955 - WESTERN ALASKA CANNED SALMON PACK - 1955

COMPANY		CANNERY LOCATION	RED			PINK	CHUM	COHO	KING or CHINOOK			GRAND TOTAL (full cases)	
			1-lb. Tails (etc)	$\frac{1}{2}$ -lb. Flats (8 dz.)	Total (full cases)	$\frac{1}{2}$ -lb. Flats (8 dz)	1-lb. Tails (etc)	1-lb. Tails (etc)	1-lb. Tails	$\frac{1}{2}$ -lb. Flats (8 dz.)	Total (full cases)		
CANNED IN WESTERN ALASKA													
1	Alaska Packers Association	Nushagak (1)	11,683	...	11,683	...	1,434	108	1,889	...	1,889	15,114	
		Naknek (L)	48,389	...	48,389	...	1,293	2	525	...	525	50,209	
		Egegik (3)	9,018	...	9,018	...	479	80	...	...	80	9,577	
		Ugashik (4)	5,567	143	5,710	...	(a) 1,745	(a) 146	236	8	244	7,845	
2	Alaska Pacific Salmon Co.	Dillingham (1)	5,842	...	5,842	...	717	54	944	...	944	7,557	
		Pederson Point (2)	16,019	...	16,019	...	428	1	174	...	174	16,622	
3	Bingman Canning Co.	Dillingham	8	...	8	...	21	88	4	...	4	121	
4	Henry Bogler	Andreafsky (Yukon)	...	...	...	...	...	...	...	301	301	301	
		Dillingham (1)	5,841	...	5,841	...	717	54	944	...	944	7,556	
5	Columbia River Packers A.	Naknek (5)	19,468	...	19,468	...	875	...	210	...	210	20,353	
6	Egegik Packing Co.	Egegik	7,113	1,961	9,074	...	443	...	51	...	51	9,568	
7	Global Fishing Co.	Koggiung (2), & Egegik (6)	14,375	654	15,029	...	631	...	132	...	132	15,792	
8	Intercoastal Packing Co.	Naknek (2)	8,810	...	8,810	...	235	...	95	...	95	9,140	
9	Libby, McNeill & Libby	Ekuk (1), Koggiung (2), & Egegik (3)	46,426	...	46,426	...	2,620	110	2,248	...	2,248	51,404	
10	Nakat Packing Corp.	Naknek (5)	27,565	...	27,565	...	1,264	...	322	...	322	29,151	
11	Northern Commercial Co.	Kwiguk (Yukon)	...	...	...	...	...	...	...	3,853	3,853	3,853	
12	Pacific American Fisheries, Inc.	Dillingham (1), Naknek (2), & Port Moller	37,258	10,160	47,418	90	(b) 4,113	(b) 657	2,518	5	2,523	54,801	
13	St. Mary's Mission	Andreafsky (Yukon)	...	...	...	...	...	...	...	763	763	763	
14	Trans-Pacific Fish. & Pack.	(Custom-canned)	3,959	...	3,959	...	144	...	36	...	36	4,139	
15	Wards Cove Packing Co.	Red Salmon (Naknek)	27,565	...	27,565	...	1,265	...	322	...	322	29,152	
16	Yukon River Fishermen & Co-Op Assn.	Alakanuk (Yukon)	...	...	...	...	...	...	...	6,090	6,090	6,090	
17	L. G. Wingard Packing Co.	Ugashik	5,567	143	5,710	...	(a) 1,745	(a) 146	236	8	244	7,845	
	Others (Estimated)		...	20,606	20,606	1	2,590	175	...	1,872	1,872	25,244	
TOTAL: WESTERN ALASKA CANNERIES			300,473	33,667	334,140	91	22,559	1,541	10,966	12,900	23,866	382,197	

FREEZERSHIP PACK - WESTERN ALASKA SALMON SHIPPED OUT AND CANNED IN OTHER DISTRICTS**

1	Alaska Reefer Fisheries	"Alaska Reefer" (A & B)	(z) 5,490	2,221	7,711	....	(z) 596	....	....	....	....	....	....	(z) 8,307	1
2	American Packing Co. (y)	"Pacific Queen" & "Pacific Reefer" (C)	1,894	....	1,894	....	190	....	....	....	....	....	....	(y) 2,084	2
3	Arctic Maid Fisheries	"Arctic Maid" (A)	(x) 3,232	4,245	7,477	....	....	....	(x) 5	....	....	....	5	7,482	3
4	Malaspina Fisheries Co.	"Michelle Eve" (D)	1,626	....	1,626	....	956	....	33	....	33	....	33	2,615	4
5	Northern Reefer Co., Inc.	"Reefer II" (E)	(w) 1,749	560	2,309	....	(w) 71	....	....	....	....	....	....	2,380	5
6	North Star Fisheries	"North Star" (H)	(w) 4,199	2,542	6,741	....	801	....	....	....	....	....	....	7,542	6
7	Pacific Queen Fisheries	"Pacific Queen" (C)	1,666	2,817	4,483	....	807	27	....	....	....	....	....	5,317	7
8	Pacific Reefer Fisheries	"Pacific Reefer" (C)	2,853	2,625	5,478	....	(v) 274	....	....	....	....	....	....	5,752	8
9	Carl Rubinstein Co.	"Reefer King" (F)	3,396	....	3,396	....	421	....	16	....	16	....	16	3,833	9
10	John S. York	"K-J" (G)	426	....	426	....	....	....	....	....	....	....	....	426	10
TOTAL CANNED ELSEWHERE			26,531	15,010	41,541	....	4,116	27	54	....	54	....	54	45,738	
GRAND TOTAL			327,004	48,677	375,681	91	26,675	1,568	11,020	12,900	23,920	....	23,920	427,935	

NOTES: - Many of the Bristol Bay packs were made through joint-operating or custom-canning arrangements in plants of other companies, most of which were as follows: (1) In P.A.F. Dillingham plant; (2) In Libby Koggiung and A. P. A. Naknek plants; (3) In A.P.A. Egegik plant; (4) In L.G. Wingard plant, Ugashik. (5) In Red Salmon plant, Naknek. (6) In Egegik Packing Co. plant.

Halves (full cases) are included with 1-lb. Tails as follows: (a) 24 Chums and 146 Cohoes; (b) 1,225 Chums and 160 Cohoes.

** "FREEZERSHIP" pack does not include any fish canned in Western Alaska, but consists of Western Alaska fish canned in various plants in other districts (mostly custom-canned for account of the Freezership operators) as follows:

(A) Washington Fish & Oyster Co., Seattle; (B) Seattle Seafoods, Inc., Seattle; (C) American Packing Co., Anacortes; (D) Parks Canneries, Ivanof Bay (Central Alaska); (E) Whiz Fish Products Co., LaConner; (F) Farwest Fishermen, Inc., Anacortes; (G) Crown Seafood Sales Co., Seattle; (H) Friday Harbor Canning Co., Friday Harbor.

(z) Includes 616 cases Reds and 17 Chums in 4-lb. cans, and 12 full cases Chums in Halves. (y) Fish from American Packing Co. boats, frozen on "Pacific Queen" and "Pacific Reefer" and canned by American Packing Co. (x) Includes 318 cases Reds and 5 Kings in #4 cans. (w) Includes 799 cases Reds & 41 Chums in #4 cans. (v) Includes 39 full cases Chums in Halves. (u) Includes 3,908 full cases Reds in #1 Flat cans, and 201 in #4 cans.

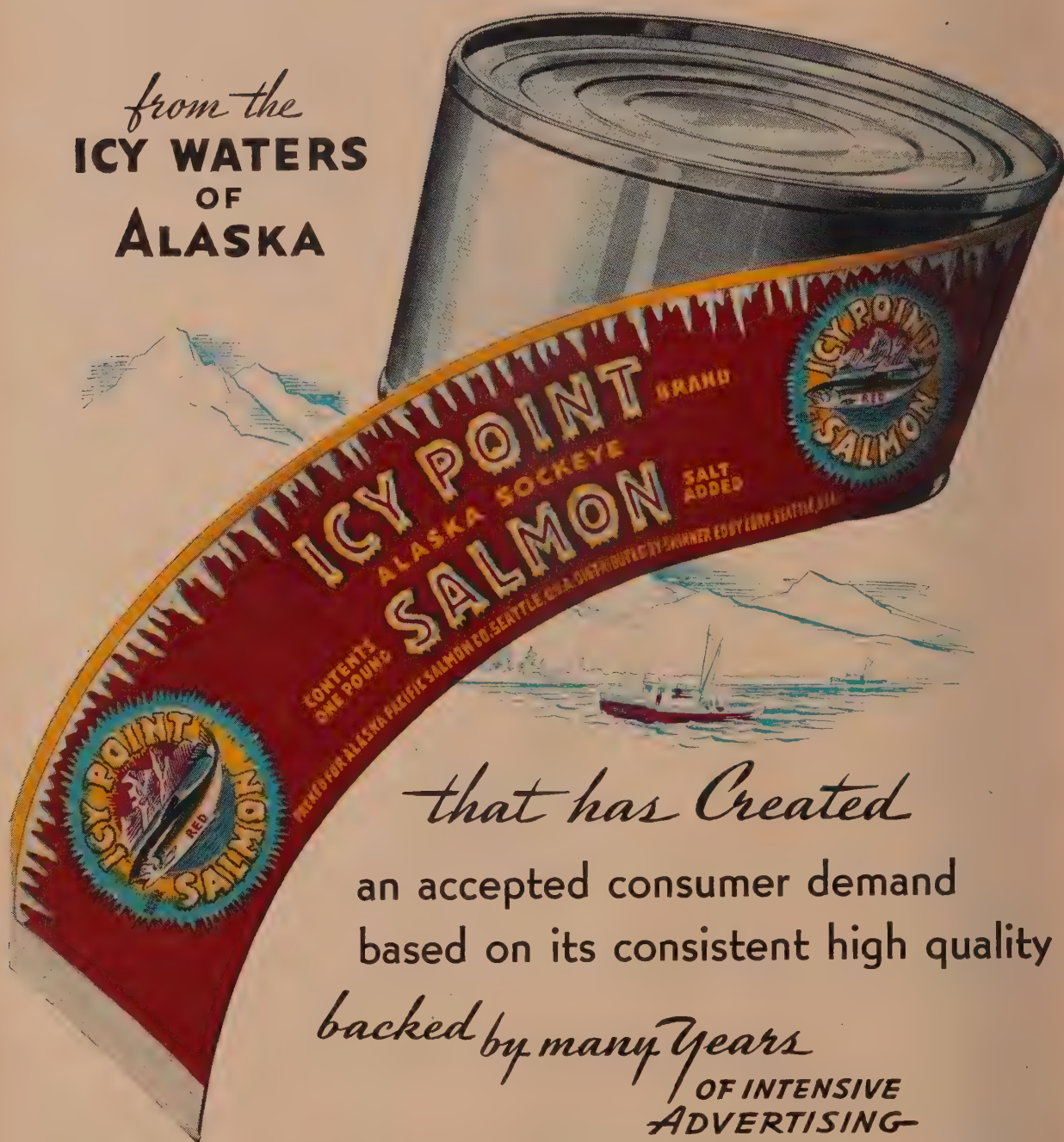
WEEKLY RED SALMON PACKS ON BRISTOL BAY

YEAR	FIRST WEEK	SECOND WEEK	THIRD WEEK	FOURTH WEEK	TO CLOSE	TOTAL	YEAR
1940	(July 6) 221,687	(July 13) 139,853	(July 20) 33,848	(July 28) 4,606	....	399,994	1940
1941	(July 5) 204,929	(July 12) 206,049	(July 19) 127,573	(July 28) 31,316	....	569,867	1941
1942	(July 4) 149,175	(July 11) 142,145	(July 18) 93,174	(July 25) 44,323	7,357	436,174	1942
1943	(July 3) 284,635	(July 10) 449,076	(July 17) 272,074	(July 24) 242,122	27,174	1,275,081	1943
1944	(July 8) 431,421	(July 15) 347,149	(July 22) 116,514	(July 29) 18,045	....	944,129	1944
1945	(July 7) 236,413	(July 14) 233,332	(July 21) 84,681	(July 28) 15,405	....	569,831	1945
1946	(July 6) 241,948	(July 13) 241,405	(July 20) 86,850	(July 27) 30,831	....	602,704	1946
1947	(July 5) 641,401	(July 12) 376,575	(July 19) 242,854	(July 26) 70,975	3,226	1,335,031	1947
1948	(July 3) 482,252	(July 10) 464,488	(July 17) 169,806	(July 24) 112,111	7,680	1,236,226	1948
1949	(July 2) 260,145	(July 9) 142,637	(July 16) 86,865	(July 23) 30,675	3,581	523,903	1949
1950	(July 1) 93,006	(July 8) 370,340	(July 15) 89,070	(July 22) 10,832	411	563,659	1950
1951	(June 30) 59,185	(July 7) 127,553	(July 14) 73,692	(July 21) 59,143	....	319,573	1951
1952	(June 28) 92,073	(July 5) 228,069	(July 12) 256,014	(July 19) 119,729	21,618	712,503	1952
1953	(June 27) 63,478	(July 4) 191,378	(July 11) 127,590	(July 18) 51,229	9,382	443,057	1953
1954	(July 3) 116,428	(July 10) 97,034	(July 17) 75,381	(July 24) 17,230	1,396	307,469	1954
1955	(July 2) 73,936	(July 9) 142,358	(July 16) 86,500	(July 23) 8,469	2,369	313,632	1955

Compiled from U.S. Fish and Wildlife Service preliminary statistics, and include only salmon canned in that area. Figures in first column of table are for the total pack (in full cases of 48 bls. net) to dates shown; those following show weekly packs.

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SALMON

WESTERN ALASKA

CANNED SALMON PACK OF ALASKA FREEZERSHIPS

(Salmon Frozen in Alaska and Canned Elsewhere—Does not Include Salmon Canned Anywhere in Alaska)*

Year	From Western Alaska (cases)				From Central Alaska (cases)			From Southeast Alaska (cases)				Grand Total Full Cases (48 lbs)	Year
	Red	Chum	Other Species	Total	Pink	Other Species	Total	Pink	Chum	Other Species	Total		
1948**	4,031	535	2,000	(b) 6,566	...	...	...	...	...	...	...	6,566	1948**
1949**	10,976	(a) 750	2,536	14,262	...	...	...	...	...	...	...	14,262	1949**
1950	12,544	2,905	...	15,449	...	...	...	1,335	597	...	...	17,415	1950
1951	44,368	1,665	3,814	49,847	805	150	955	1,652	4,257	202	1,966	56,913	1951
1952	100,350	2,397	1,071	103,818	2,909	...	2,909	4	7,179	462	7,645	114,372	1952
1953	51,133	1,576	11	52,720	10,971	883	11,854	223	7,475	83	7,781	72,355	1953
1954	67,266	2,979	1,637	71,882	9,296	2,930	12,226	4,142	13,031	4,525	21,698	105,806	1954
1955	39,915	3,160	48	43,123	23,461	2,107	25,568	128	23	7,142	7,142	75,984	1955
Average	41,324	1,996	1,389	44,709	5,930	759	6,689	936	4,070	1,556	6,562	57,960	Average

**Data prior to 1950 cannot be accurately segregated. Some fish were frozen in Central Alaska and Southeastern Alaska in the years 1948 and 1949, but data available are not felt to be sufficiently accurate for inclusion in this table. Accordingly, reports for these next two years are concerned with Bristol Bay only.

*Some discrepancy arises from the fact that other tables, for current years, include some fish canned in other parts of Alaska than the areas where caught.

(a) Estimated.

(b) "Reefer King" pack only.

size. For example, the summer catch of Fraser Sockeye required 11.8 fish to pack a full case, where in the cycle year 1951 the average was 9.6 fish, near the normal for the Fraser.

● Bristol Bay salmon operations of 1955 were marked by:

1. Remarkably accurate forecast—for the second successive year—by the Fisheries Research Institute of the run to the Nushagak.

2. Disappointing runs to the Kvichak, Egegik and Ugashik—disappointing particularly to those operators who, with faith in the forecast of a favorable run to the Nushagak, had expected that this condition actually would occur throughout the Bristol Bay region in spite of the adverse historical evidence.

The F.R.I. forecast of the Nushagak run, made publicly in the fall of 1954, anticipated a run of Reds to that stream of 3,275,500 fish, approx-

imately three times the forecast on which the Fish and Wildlife Service based its regulations for the year. In actuality, the Institute's prediction was remarkably exact, registering a degree of success which is expected to result in broad modification of the means and measures for assessment of salmon prospects for this region in the future; and the extension of the F.R.I. method of sampling, enumeration and evaluation to other stream systems of the Bristol Bay complex.

UNITED STATES CANNED SALMON PACK

YEAR	Red or Sockeye	Pink	Chum or Keta	Med. Red Coho or Silverside	King or Chinook	Steelhead	GRAND TOTAL	YEAR
1916	2,217,259	1,755,433	1,260,131	529,096	579,615	19,013	6,360,547	1916
1917	2,908,995	3,432,573	1,173,040	431,160	597,704	23,937	8,567,409	1917
1918	2,711,251	2,425,500	1,677,416	647,020	589,786	25,170	8,076,143	1918
1919	1,338,401	2,079,775	1,995,446	593,192	664,844	19,899	6,630,347	1919
1920	1,541,286	1,618,103	1,090,103	251,533	586,749	13,659	5,101,705	1920
1921	1,870,396	845,184	288,539	238,595	369,756	10,142	3,622,612	1921
1922	2,181,197	1,659,781	650,079	491,643	313,992	24,983	5,231,675	1922
1923	1,974,495	2,930,985	702,536	415,084	362,660	25,997	6,411,757	1923
1924	1,533,237	2,619,013	1,266,654	418,336	378,218	29,862	6,245,320	1924
1925	1,187,784	2,659,144	1,214,304	477,159	481,071	14,859	6,034,321	1925
1926	2,218,638	3,334,787	1,067,053	429,942	408,136	33,128	7,491,684	1926
1927	1,430,116	1,993,679	656,911	459,209	481,914	31,643	5,053,472	1927
1928	2,010,956	2,791,061	1,302,422	445,496	335,907	16,605	6,902,447	1928
1929	1,819,469	3,298,127	1,115,924	367,847	358,085	24,104	6,983,556	1929
1930	1,232,340	3,154,364	683,451	566,250	390,756	16,932	6,044,093	1930
1931	1,792,111	3,684,092	615,441	285,930	390,563	12,355	6,780,492	1931
1932	2,200,104	2,118,250	1,006,776	257,735	318,770	13,218	5,914,853	1932
1933	2,321,784	2,726,783	727,917	243,055	323,176	18,027	6,360,742	1933
1934	2,876,981	3,825,989	849,721	371,521	322,968	14,901	8,361,990	1934
1935	882,408	3,624,148	893,612	364,625	257,773	14,888	6,037,454	1935
1936	2,553,160	4,590,422	1,249,188	287,224	283,941	19,282	8,983,217	1936
1937	2,168,528	3,947,271	786,397	236,708	369,725	17,568	7,526,197	1937
1938	2,677,723	3,222,559	845,433	294,257	118,989	15,248	7,274,209	1938
1939	2,020,200	2,791,790	668,274	227,143	238,827	25,293	5,971,527	1939
1940	1,040,241	2,910,972	919,368	375,668	269,217	33,436	5,548,902	1940
1941	1,308,740	4,790,573	851,902	440,653	372,624	33,162	7,779,654	1941
1942	1,194,985	2,819,501	1,089,555	406,032	320,531	21,911	5,852,515	1942
1943	2,004,204	2,384,186	895,265	191,135	185,340	16,261	5,676,391	1943
1944	1,618,729	2,087,621	987,382	202,364	203,761	19,222	5,119,079	1944
1945	1,227,162	2,549,848	693,803	239,086	181,367	19,314	4,910,580	1945
1946	1,350,629	2,060,243	694,728	217,004	222,744	17,767	4,563,115	1946
1947	1,911,284	2,363,069	666,497	293,058	356,665	22,091	5,612,664	1947
1948	1,734,091	1,308,689	1,054,637	370,610	338,037	20,362	4,826,426	1948
1949	1,075,427	3,236,317	718,878	277,495	207,868	8,931	5,254,916	1949
1950	1,290,249	1,097,811	1,317,761	352,126	205,981	10,534	4,274,462	1950
1951	936,120	2,001,352	981,524	466,880	244,832	14,862	4,645,570	1951
1952	1,413,670	1,175,054	1,290,667	397,534	159,086	19,011	4,455,022	1952
1953	1,162,614	1,396,388	966,418	207,144	158,437	19,645	3,910,646	1953
1954	1,323,830	1,151,126	1,329,756	215,123	129,933	13,379	4,163,147	1954
1955	758,433	1,677,881	461,872	201,275	171,408	14,056	3,284,925	1955
10 Year Average	1,342,508	1,833,990	971,467	303,606	220,495	16,590	4,688,656	10 Year Average

NOTE: - Figures represent full cases of 48-lbs. net. "Average" is for the ten years preceding the current year. Figures for the last year shown are from Pacific Fisherman's compilation; those for previous years have been revised from official data.

Established 1919

F. A. GOSSE

COMPANY



FIRST . . . In Quality!

For the private label buyer, as for our own label, we carefully select the best the market affords.

. . . this selection is guided by nearly 40 years' experience in knowing the right sources when searching for FIRST QUALITY in appearance, flavor and wholesomeness.

. . . with pardonable pride, we point to the popularity of our RED BREAST and PINK ROSE BRANDS . . . built on the sure foundation of TOP QUALITY.



DOMESTIC
EXPORT

**Northwest Tuna
Dungeness Crab
King Crab**

MAIN 0475

1800 EXCHANGE BUILDING
SEATTLE 4, WASHINGTON

Cable Address: FAGOS, SEATTLE

• Bitter disappointment was registered along the south side of the Alaska peninsula during the 1955 season. The north side was normal in its limited way—normal for recent years, that is; but the south side runs were disastrously poor. The Red run

was just about the same as the very poor one of the year before; and Chums were down to less than half the good yield of 1954. Pinks in particular were poor, not much more than half the yield of the cycle year for this species.

SALMON

CENTRAL ALASKA

Chignik fared relatively much better than its related peninsula district further west, although as often occurs

CENTRAL ALASKA CANNED SALMON PACKS

ALASKA PENINSULA, SOUTH SIDE (Cases)						YEAR	CHIGNIK (Cases)					
Reds	Pinks	Chums	Cohoos	Kings	TOTAL		Reds	Pinks	Chums	Cohoos	Kings	TOTAL
152,073	156,556	109,608	17,082	3,130	438,449	1933	55,541	16,369	11,188	4,051	249	87,398
173,136	312,762	182,666	25,418	4,639	698,621	1934	122,326	28,406	13,417	2,476	157	166,782
74,412	266,144	175,340	11,297	3,741	530,934	1935	60,808	19,504	17,027	1,611	127	99,077
276,548	512,740	199,222	27,226	3,678	1,019,414	1936	100,499	35,917	10,278	4,643	108	151,455
92,639	451,139	117,147	6,836	2,262	670,023	1937	52,727	57,620	10,193	1,626	154	122,320
57,439	367,827	128,574	21,650	1,655	577,145	1938	35,117	12,071	6,792	2,254	148	56,412
149,046	292,203	120,901	9,835	4,483	576,468	1939	142,770	13,744	6,874	728	377	164,493
88,690	356,969	209,749	18,063	3,330	676,801	1940	27,772	4,083	2,349	20	...	34,224
97,695	233,438	163,058	17,298	3,008	514,497	1941	59,373	16,373	15,345	2,322	316	93,729
56,886	291,392	117,532	10,437	843	477,090	1942	56,977	22,962	11,853	1,093	378	93,263
177,000	167,024	70,727	6,657	1,934	423,342	1943	110,086	4,265	4,638	1,924	290	121,203
40,585	123,988	82,560	21,108	819	269,050	1944	47,448	29,283	6,221	1,223	442	84,617
58,984	140,319	73,752	9,923	1,765	284,743	1945	18,666	18,381	11,582	638	222	49,489
50,808	89,164	88,544	12,122	688	241,326	1946	70,817	39,544	22,049	695	305	133,410
83,407	115,916	81,921	4,343	456	286,043	1947	146,788	23,640	5,417	512	111	176,468
23,916	66,743	82,494	2,689	151	175,993	1948	47,393	47,393	31,348	79	79	112,473
47,751	70,866	39,863	1,526	723	160,729	1949	54,146	3,976	11,210	512	129	69,973
135,595	88,452	49,703	5,315	803	279,868	1950	31,644	28,737	8,885	1,135	127	70,528
15,344	116,730	43,007	3,440	183	178,704	1951	25,857	18,576	16,135	719	231	61,518
64,685	38,317	110,249	4,106	182	217,539	1952	14,852	23,113	49,359	94	20	87,438
142,477	131,958	138,117	3,364	624	416,540	1953	37,758	32,186	46,738	88	127	116,897
45,719	64,847	112,598	2,155	561	225,880	1954	11,078	29,000	38,046	93	45	78,262
45,318	76,639	54,263	1,638	541	178,399	1955	31,070	29,484	25,753	2	114	86,423
71,401	99,995	87,451	5,062	668	264,577	Aver.	47,625	29,652	26,652	457	151	104,288
KODIAK AREA (Cases)						YEAR	COOK INLET (Cases)					
Reds	Pinks	Chums	Cohoos	Kings	TOTAL		Reds	Pinks	Chums	Cohoos	Kings	TOTAL
108,787	331,000	50,134	8,222	283	498,426	1933	98,510	5,591	5,277	16,419	14,710	140,867
151,924	420,684	73,588	9,151	344	655,691	1934	154,697	48,186	9,141	25,665	19,148	256,837
119,720	534,083	42,130	6,753	350	703,036	1935	104,694	22,506	14,400	14,977	18,863	175,440
202,983	394,025	39,248	17,548	620	654,424	1936	188,063	51,350	23,780	31,345	19,723	314,261
120,674	769,055	29,353	14,179	357	933,618	1937	109,471	21,528	12,976	14,005	24,674	182,654
142,112	450,098	69,792	14,716	316	677,034	1938	170,725	54,894	16,260	32,745	16,060	290,684
115,604	603,492	62,185	9,442	651	791,374	1939	183,304	15,570	20,726	13,076	16,554	249,230
93,751	443,154	60,332	14,246	313	611,796	1940	129,952	122,437	26,695	46,015	15,995	341,093
121,725	508,306	57,368	22,854	638	710,891	1941	90,885	38,235	24,706	31,105	27,448	212,379
83,340	313,711	76,563	10,751	363	484,728	1942	98,418	55,722	40,110	61,734	28,617	284,604
129,105	555,209	41,766	5,623	308	730,070	1943	102,746	60,540	26,292	23,447	30,963	243,988
142,212	335,683	56,035	5,623	183	539,736	1944	156,799	96,694	23,311	25,442	25,668	327,914
154,513	491,346	64,957	5,640	521	716,977	1945	118,849	54,370	28,302	28,718	22,420	252,659
65,810	541,334	37,817	3,982	34	648,977	1946	105,065	60,101	31,593	35,835	17,191	249,785
85,805	494,211	23,133	6,752	27	609,928	1947	106,180	30,073	21,183	34,430	30,718	222,584
98,030	303,564	93,918	4,046	189	499,747	1948	133,828	75,678	38,086	29,462	32,688	309,742
69,861	208,537	63,632	5,055	803	347,888	1949	165,588	19,139	21,844	26,783	31,234	264,588
64,463	266,694	73,846	5,786	408	411,197	1950	207,032	62,522	52,572	63,565	34,247	419,944
81,117	126,238	89,926	8,842	5,996	312,119	1951	171,030	24,296	21,884	27,707	59,973	304,890
99,888	281,405	141,730	4,678	1,963	519,664	1952	94,951	115,666	30,095	20,252	22,931	283,895
47,451	273,344	68,239	5,143	328	394,505	1953	101,206	27,208	41,457	18,880	28,952	217,703
34,643	382,779	141,682	6,597	682	566,383	1954	105,571	133,864	85,083	33,318	23,995	381,831
17,923	525,322	54,290	3,059	78	600,672	1955	79,006	62,454	29,450	13,690	15,034	199,642
80,950	389,477	85,317	5,958	1,104	562,806	Aver.	138,831	66,537	40,155	33,264	31,938	310,725
PRINCE WILLIAM SOUND and RESURRECTION BAY (cases)						YEAR	COPPER and BERING RIVER AREA (cases)				REGIONAL GRAND TOTAL	
Reds	Pinks	Chums	Cohoos	Kings	TOTAL		Reds	Cohoos	Kings	TOTAL		
12,786	194,646	31,672	8,317	723	248,144	1933	56,787	11,232	4,691	72,710	1,485,994	
14,549	389,676	34,421	13,661	715	453,022	1934	92,838	158	3,469	96,465	2,327,418	
16,096	201,756	53,226	3,447	621	275,146	1935	8,453	9,385	760	18,598	1,802,231	
13,440	609,537	23,660	5,245	431	652,313	1936	75,296	15	2,513	77,824	2,869,691	
8,492	182,762	21,941	6,651	329	220,175	1937	78,238	5,463	3,868	87,569	2,216,359	
10,615	461,114	31,218	6,846	251	510,044	1938	65,777	155	2,514	68,446	2,179,765	
12,390	129,491	28,756	3,858	257	174,752	1939	52,285	1,116	2,192	55,593	2,011,910	
7,065	521,745	54,001	10,257	182	593,250	1940	37,847	30,521	1,337	69,705	2,326,869	
7,083	217,007	73,776	6,430	100	304,396	1941	36,868	83,142	3,067	123,077	1,958,969	
13,289	366,965	82,633	13,703	449	477,039	1942	47,849	84,322	5,262	137,433	1,954,157	
9,285	511,818	30,620	8,237	2,595	562,555	1943	57,418	21,837	4,893	84,148	2,165,306	
12,741	416,848	118,159	7,902	158	555,808	1944	62,780	34,949	2,517	100,246	1,877,381	
17,382	493,482	154,080	4,941	102	669,987	1945	70,744	41,103	6,037	117,884	2,091,739	
10,432	317,329	76,003	16,037	408	420,209	1946	45,645	25,821	7,145	78,611	1,772,318	
17,955	380,017	65,018	7,270	180	470,440	1947	30,717	22,231	3,596	56,544	1,822,007	
19,115	123,411	47,008	5,048	74	194,456	1948	13,536	28,405	1,237	43,180	1,335,791	
8,423	275,830	83,195	13,016	167	380,631	1949	46,404	15,986	1,964	64,354	1,288,163	
7,179	111,838	57,464	12,441	88	189,010	1950	70,592	18,997	4,517	94,106	1,464,654	
66,871	47,249	56,680	30,555	5,195	206,550	1951	39,963	24,513	3,737	68,213	1,131,994	
107,471	118,905	68,430	37,987	9,231	342,024	1952	103,533	1,605	9,337	114,475	1,565,035	
5,355	124,122	34,929	4,454	37	168,897	1953	51,136	3,884	3,163	58,183	1,872,725	
1,688	1,240	1,670	603	.....	5,201	1954	102,850	33,035	4,336	140,221	1,397,778	
1,684	5,941	1,602	663	.....	10,070	1955	56,071	27,580	5,840	89,521	1,164,727	
26,373	199,936	64,608	13,301	1,548	305,766	Aver.	63,119	24,316	5,091	92,529	1,640,691	

NOTE:— Figures are based on U.S. Fish & Wildlife Service final data, which DO NOT include fish caught in these areas and canned elsewhere, and accordingly are somewhat different from those in other tables compiled independently by Pacific Fisherman. Figures for the latest year shown are preliminary. "Average" figures are for the last ten years.

The Five Salmon Go to Market with OCEANIC



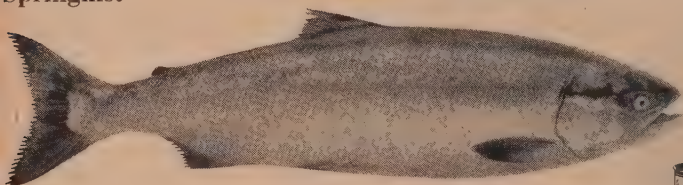
OUR
BRANDS

CHINOOK

Gill Netters Best
Co-Operators Best
Springkist



Called "King" in many areas, the big salmon above well deserves the name. This salmon is highly favored, although he furnishes only a limited part of the canned salmon pack. Weight averages about 25 pounds, but Chinooks above 100 pounds have been taken.

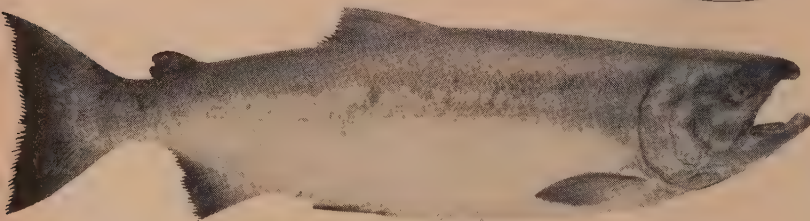


RED

Red-E-Lunch
Hummer

Coatarms

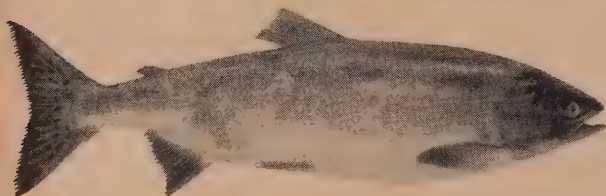
"Sockeye" in some areas, this trim salmon averages 7 pounds weight. Yielding the Red salmon pack, it is one of the world's most important fishes.



SILVER

Redman
Salad

Commonly known as "Coho" and "Medium Red" as well as "Silver," this species averages about 8 pounds in weight. The flesh has a strong red color.

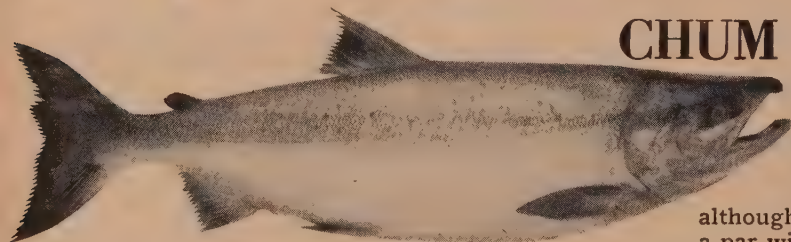


PINK

Oceanic
Down South

Seafed
Seafarer

Although the smallest of the five salmon, the Pink makes the largest contribution of all to the canned salmon pack. The species' life cycle is two years.



CHUM

Tomah
Overland

Ben Hur
Western Star

Tennis

The pale color of its flesh keeps the Chum salmon cheap, as consumer preference for color in canned salmon has powerful leverage. Although pale, although cheap, this salmon ranks on a par with the others in nutritive value.



OCEANIC SALES COMPANY

33rd FLOOR SMITH TOWER SEATTLE 4, WASHINGTON

Exclusive Sales Agents For:

UNION FISHERMEN'S CO-OPERATIVE PACKING COMPANY'S

Complete Line of Columbia River Fisheries Products

SALMON

CENTRAL ALASKA

1955-CENTRAL ALASKA CANNED SALMON PACK-1955

COMPANY	CANNERY LOCATION	RED OR SOCKE			PINK			CHUM			COHO			KING OR CHINOOK			GRAND TOTAL (full cases)
		1 & 4 lb. Tails & Flats	1/2 lb. (8 doz)	TOTAL	1 & 4 lb. Tails & Flats	1/2 lb. (8 doz)	TOTAL	1 & 4 lb. Tails & Flats	1/2 lb. (8 doz)	TOTAL	1 & 4 lb. Tails & Flats	1/2 lb. (8 doz)	TOTAL	1 & 4 lb. Tails & Flats	1/2 lb. (8 doz)	TOTAL	
1 Alaska Pacific Salmon Co.	Sand Point (1)	15,356	2,269	2,269	15,781	...	16,781	5,427	...	5,427	691	...	691	4	...	4	25,172
2 Alaska Packers Association	Chignik	15,356	2,195	17,551	15,224	...	15,224	10,355	...	10,355	1	...	1	59	...	59	43,190
3 Alaska Year Round Canneries	Larsen Bay	504	868	1,372	16,591	...	16,591	734	...	734	10	...	10	...	...	...	17,839
4 Alaska Year Round Canneries	Seldovia, etc. (14)	2,023	...	2,023	76,430	...	76,430	5,706	...	5,706	122	...	122	5	...	5	83,725
5 Bernam Packing Co.	Chignik (3)	6,894	713	7,607	3,442	...	3,442	1,036	...	1,036	130	...	130	...	...	...	6,631
6 Cook Inlet Packing Co.	Ninilchik	13,518	3,608	3,608	582	...	582	1,271	...	1,271	250	...	250	1,127	...	1,127	22,673
7 Copper River Co.-Op Co., Inc.	Seldovia (4)	2,607	4,461	4,461	18,528	...	18,528	16,217	...	16,217	1,211	...	1,211	55	...	55	6,418
8 Cordova Fish & Cold Storage Co.	Cordova	1,400	549	1,200	1,791	...	1,791	550	...	550	390	...	390	1,448	...	1,448	4,879
9 Crystal Falls Fish Co.	Crystal Falls (Cordova)	941	1,232	2,173	...	...	...	1,840	...	1,840	775	...	775	2,030	...	2,030	8,334
10 Emerald Packing Co.	Port Graham	8,393	8,393	13,107	45,970	...	45,970	6,637	...	6,637	169	...	169	960	...	960	4,215
11 Fmago Island Packing Co.	Anchorage	(211) 413	14,897	14,897	12,342	...	12,342	17,413	...	17,413	510	...	510	245	...	245	2,125
12 Hattery Canneries, Inc.	Kodiak	(211) 413	14,897	14,897	12,342	...	12,342	17,413	...	17,413	510	...	510	245	...	245	10,242
13 J. H. Hoekzema Cannery Co.	Kodiak (6)	688	25	688	33,269	...	33,269	2,278	...	2,278	385	...	385	...	...	...	32,700
14 J. H. Hoekzema Cannery Co.	Kodiak (6)	688	25	688	33,269	...	33,269	2,278	...	2,278	385	...	385	...	...	...	11,051
15 Intercoastal Packing Co.	Kodiak (6)	2,604	...	2,604	99,121	...	99,121	8,036	...	8,036	477	...	477	30	...	30	6,843
16 Island Seafoods, Inc.	Nuka Pass, Port Dick, etc. (11)	38	5,266	9,822	2,759	...	2,759	1,438	...	1,438	1,130	...	1,130	148	...	148	11,051
17 Kadiak Fisheries Co.	Kodiak	4,566	...	4,566	396	...	396	1,880	...	1,880	1,250	...	1,250	606	...	606	2,039
18 Kenai Packers	Kenai	(16) 34	6,349	13,975	43,682	...	43,682	6,248	...	6,248	1,250	...	1,250	1,811	...	1,811	11,051
19 King Crab, Inc.	Mosier Bay & Kenai	7,526	...	7,526	2,408	...	2,408	...	...	...	...	...	...	...	...	...	66,866
20 Libby, McNeill & Libby	Kenai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2,408
21 Malaspina Fisheries Co.	Kenai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2,408
22 Malaspina Fisheries Co.	Kenai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2,408
23 Munsen Packing Co.	Kenai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2,408
24 New England Fish Co.	Ouzounie & Kodiak (9)	7,648	13,328	20,976	8,701	...	8,701	2,994	...	2,994	6,913	...	6,913	50	...	50	4,121
25 Ozunika Packing Corporation	King Cove, Kodiak, Larsen B	195	...	195	(19) 27,829	...	27,829	3,510	...	3,510	344	...	344	34	...	34	51,121
26 Pacific American Fisheries, Inc.	(10) & Shug Harbor (11)	(20) 6,512	11,868	13,380	94,240	...	94,240	2,546	...	2,546	31,612	...	31,612	...	...	...	31,878
27 Parks Canneries	Uyak & Shug Harbor (11)	2,412	13	2,425	10,746	...	10,746	3,101	...	3,101	519	...	519	...	...	...	150,837
28 Peninsula Packers	Faiste Pass & Uganik Bay (13)	6,330	...	6,330	25,970	...	25,970	6,308	...	6,308	...	...	...	62	...	62	17,748
29 Port Chatham Packing Co.	Portlock	17,380	3,899	17,380	3,071	...	3,071	2,933	...	2,933	...	...	...	...	...	...	39,127
30 Resurrection Bay Co.	Seward	482	...	482	4,192	...	4,192	851	...	851	621	...	621	...	...	...	23,446
31 San Juan Fishing & Packing Co.	Cordova (12)	1,074	1,074	1,074	37,556	...	37,556	2,794	...	2,794	314	...	314	15	...	15	9,801
32 Seldovia Bay Packing Co.	Seldovia	10,406	4,280	14,686	14,856	...	14,856	948	...	948	1,210	...	1,210	1,680	...	1,680	4,921
33 Shelter Cove Packing Co.	Cordova	643	643	643	1,065	...	1,065	702	...	702	1,027	...	1,027	9	...	9	1,170
34 Shug Harbor Packing Co.	Shug Harbor	(20) 1,833	...	(20) 1,833	1,833	...	1,833	...	...	...	...	...	...	...	...	...	4,322
35 Tidewater Packing Co.	Anchorage	15	15	15	1	...	1	2	...	2	2	...	2	...	...	...	133
36 Mrs. G.A. Vanhoog	Cordova	2	2	2	22,033	...	22,033	2,435	...	2,435	140	...	140	...	...	...	4,921
37 Washington Fish & Oyster Co.	Port Williams	722	431	1,153	1,845	...	1,845	140	...	140	178	...	178	...	...	...	57
38 West Point Cannery, Inc.	Uganik Bay	2,929	15,310	18,239	...	...	...	22	...	22	9	...	9	...	...	...	25,827
39 TOTAL, CENTRAL ALASKA CANNERIES		143,506	91,642	235,148	670,686	25,102	695,788	157,006	7,367	164,373	42,945	4,154	47,099	8,897	12,936	21,833	30,972
40																	2,478

NOTES: - Some packs were made through joint operations or custom canning in plants of other companies, as follows: (1) In P.A.F. King Cove plant; (2) In P.A.F. Alitka plant; (3) In A.P.F. Chignik plant; (4) In Shug Harbor plant; (5) Partly in New England Ocea plant; (6) All Tails in Wash. F. & O. plant, Port Williams; (7) In Parks plant; (8) Partly in Hattery Cordova, Libby Kenai and Kodiak Port Bailey plants; (9) Includes 2,249 cases in Hattery Kodiak plant; (10) In P.A.F. plant; (11) In Shug Harbor Pkg. Co. plant; (12) In Cordova Fish & C.S. Co. plant; (13) In P.E. Harris & San Juan plants; (14) Partly in Alaska Year Round plant; (15) Formerly operated by Uganik Fisheries, Inc.

Four-pound cans are included with 1-lb. Tails; as follows: (16) All 4-lbs.; (17) Includes 270 cases #4;

(18) Includes 4,894 cases #4; (19) Includes 684 cases #4; (20) Includes 2 cases Reds and 4,892 Cobses in #4; (20) Includes 1-lb. Packs, 1,393 cases Reds and 42 Kings; (22) Smoked salmon.

***FREEZERSHIP** Pack does not include any fish canned in Central Alaska, but may include some fish caught in other parts of Alaska, which could not be segregated. This fish was canned in various Puget Sound canneries (mostly custom-canned), as follows: (A) Washington Fish & Oyster Co., Seattle; (B) Seattle Seafoods, Inc.; (C) Dresser-Collins Fish Co.; (D) Friday Harbor Cannery Co.; Friday Harbor (E) American Packing Co., Anacortes; (F) Farwest Fishermen, Inc.; Anacortes; (G) Crown Seafood Sales Co., Seattle; (2) Includes 1,011 cases 4-lb. cans (Y) Includes 878 cases 4-lb. cans; (X) Approximate.



Today and Tomorrow

THIS year the Salmon Industry is faced with its shortest pack in many years—resulting in higher production costs, higher selling prices. In addition, it is constantly facing a low price on one or more competitive food items—and increasing Salmon packing activity outside the United States.

Therefore, the Industry is confronted with some very serious and growing problems. If it is to uphold the reputation that canned salmon has gained—for high nutritional value—for taste and attractiveness—for relative economy—each segment of the Industry must be ever vigilant to maintain high quality and cut costs wherever and whenever possible.

We, here at Pacific American Fisheries, pledge our utmost to maintain and better the position of canned salmon on the nation's dinner tables.

PACIFIC AMERICAN FISHERIES, Inc.

SOUTH BELLINGHAM, WASHINGTON

Quality Always

Sales Subsidiary: DEMING & GOULD COMPANY, South Bellingham

its pack total is somewhat deceptive because of the transport of surplus fish from the flush Kodiak area to Chignik for canning.

● In all Alaska the bright spot was Kodiak Island—and this despite the poorest Red run in the history of that once-great Red producer.

Kodiak shown brightly in Pinks—the island alone accounting for almost as many Pinks as all Southeast Alaska combined. As a matter of fact, Kodiak Island produced 42.4% of the Pinks canned in all Alaska in 1955.

That's how good it was; and how poor were the rest of the Pink fisheries in that year.

● Cook Inlet camp a cropper in 1955. Prophets of depletion who for years had been predicting that the big build-up of fishing intensity on the Inlet would eventually result in damage and decline saw in the year's

dismal results the on-set of the condition they feared.

Pinks recovered in moderate measure from the disastrous failure of the 1953 cycle year, but all other species slid sharply.

Whether the pack figures for the Inlet really reflect the condition of the fishery is open to question. Pack-

Pack of Alaska Canned Salmon by Species and Values

Salmon fishing in Alaska commenced in 1878, but no segregation of the packs by species is available prior to 1896, while the valuations were not recorded prior to 1905. Earlier total packs, starting with 8,159 cases in 1878, ranged from 6,539 cases in 1880 to a peak of 801,400 in 1891, the output in 1895 being 626,530 cases. The average from the beginning through 1895 was 291,973 cases.

The "Average" figures at bottom of table are for the last ten years. Values are based on opening prices, or on prices at which the bulk of the packs were sold.

YEAR	RED, SOCKEYE		PINK		CHUM		COHO		KING		TOTAL		YEAR
	Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value	
1896	806,010	....	111,986	....	452	....	37,017	....	11,242	....	966,707	....	1896
1897	688,581	....	157,711	....	1,396	....	43,557	....	17,833	....	909,070	....	1897
1898	782,941	....	109,399	....	5,184	....	54,711	....	12,862	....	965,997	....	1898
1899	864,254	....	149,159	....	1,931	....	39,402	....	23,400	....	1,078,146	....	1899
1900	1,197,406	....	232,022	....	30,012	....	50,984	....	37,715	....	1,548,139	....	1900
1901	1,319,335	....	541,427	....	47,464	....	65,509	....	43,069	....	2,016,804	....	1901
1902	1,685,546	....	549,602	....	159,849	....	82,723	....	59,104	....	2,536,824	....	1902
1903	1,687,244	....	355,799	....	35,052	....	120,506	....	47,609	....	2,246,210	....	1903
1904	1,505,548	....	299,333	....	21,178	....	85,741	....	41,956	....	1,953,756	....	1904
1905	1,574,428	\$5,335,547	168,579	\$498,194	41,972	\$113,056	67,394	\$215,875	42,125	\$141,999	1,894,516	\$6,304,671	1905
1906	1,475,961	5,620,875	348,675	1,046,951	254,812	730,235	109,141	382,109	30,834	116,222	2,219,044	7,896,392	1906
1907	1,295,113	5,915,227	561,973	1,799,290	184,173	547,757	85,190	337,384	43,424	181,718	2,169,873	8,781,366	1907
1908	1,651,770	7,524,251	644,133	1,733,379	218,513	554,197	68,827	274,089	23,730	99,867	2,606,977	10,185,783	1908
1909	1,705,302	7,610,550	464,873	1,114,839	120,712	274,110	56,556	231,029	48,034	207,624	2,305,477	9,438,151	1909
1910	1,450,267	7,774,390	554,322	1,764,055	254,218	773,409	114,026	559,666	40,221	214,802	2,413,054	11,086,322	1910
1911	1,320,705	8,552,512	1,021,356	4,493,966	303,823	1,215,692	120,704	752,283	45,378	363,024	2,820,966	16,198,833	1911
1912	1,904,258	10,776,987	1,303,365	3,410,928	638,528	1,600,444	170,384	791,023	52,594	310,847	4,060,129	16,890,229	1912
1913	1,964,379	9,136,616	1,402,916	3,687,446	267,654	623,424	77,377	271,078	34,167	140,914	3,746,914	13,859,478	1913
1914	2,201,574	12,482,110	997,823	3,600,075	662,478	2,260,614	157,792	735,219	48,165	281,924	4,067,832	19,719,942	1914
1915	1,922,296	11,907,202	1,870,373	5,619,436	484,408	1,356,469	126,570	588,903	85,694	458,000	4,489,341	19,930,010	1915
1916	2,119,442	13,147,994	1,753,546	6,446,168	715,238	2,434,627	265,184	1,430,143	66,179	364,496	4,919,589	23,823,428	1916
1917	2,484,881	29,058,778	2,298,466	15,120,419	877,713	5,375,713	193,708	1,634,600	67,552	660,668	5,922,320	51,850,017	1917
1918	2,618,559	25,313,837	2,418,212	16,142,604	1,366,859	8,756,598	216,572	2,068,784	57,367	596,000	6,677,569	52,877,823	1918
1919	1,265,543	17,143,017	1,657,434	14,982,542	1,348,462	9,450,772	230,229	2,809,310	90,533	1,131,662	4,592,201	45,572,714	1919
1920	1,475,780	19,591,816	1,613,434	9,751,845	1,022,708	4,712,575	192,311	1,579,963	91,276	1,154,013	4,395,509	37,050,212	1920
1921	1,758,794	16,539,177	440,471	1,938,263	247,606	990,424	109,783	649,480	48,319	352,699	2,604,699	20,470,043	1921
1922	2,075,397	19,719,158	1,657,556	7,709,011	562,496	2,369,396	174,312	949,312	31,604	258,799	4,501,428	31,006,027	1922
1923	1,878,330	17,727,572	2,455,136	12,337,580	527,145	2,542,759	163,752	957,439	38,977	344,078	5,063,340	33,909,428	1923
1924	1,449,724	14,840,946	2,613,068	13,191,793	1,027,183	4,931,172	182,207	1,312,969	33,741	304,809	5,305,923	34,581,689	1924
1925	1,065,290	15,243,243	2,105,240	11,473,271	1,065,399	4,701,847	164,199	1,702,243	50,774	682,235	4,450,898	33,802,839	1925
1926	1,157,087	21,328,739	3,338,349	17,987,527	902,443	4,518,929	202,527	1,700,563	52,476	544,247	6,652,882	46,080,005	1926
1927	1,320,563	16,880,670	1,414,756	8,638,551	507,641	2,761,638	252,629	2,307,569	70,438	853,100	3,566,072	31,441,534	1927
1928	1,944,061	18,902,050	2,785,464	18,512,649	991,504	564,567	297,886	2,140,685	51,195	505,017	6,070,110	45,624,968	1928
1929	1,693,050	19,388,299	2,570,506	15,551,647	860,876	4,659,754	172,070	1,302,887	73,740	769,869	5,370,242	41,672,456	1929
1930	848,787	11,172,954	3,150,652	12,773,894	596,000	2,162,306	329,988	3,011,505	63,560	764,254	4,988,987	29,884,813	1930
1931	1,695,782	16,161,532	2,978,512	10,226,769	536,909	1,726,203	170,208	1,119,332	51,124	462,800	5,432,535	29,696,636	1931
1932	2,104,727	10,803,982	2,116,573	6,368,695	821,128	2,301,408	149,351	606,798	68,709	368,522	5,260,488	20,449,405	1932
1933	2,182,371	14,649,771	2,183,443	10,498,358	658,245	3,028,584	161,633	884,276	41,006	345,310	5,226,698	29,406,294	1933
1934	2,626,002	17,687,617	3,822,602	15,349,445	735,055	2,651,538	235,560	1,197,000	51,367	155,230	7,470,586	37,040,834	1934
1935	823,175	7,216,754	3,254,528	13,767,517	852,730	3,414,160	188,918	1,263,479	36,475	348,024	5,155,826	26,009,934	1935
1936	2,482,555	19,648,482	4,589,270	18,430,508	1,106,983	4,094,532	218,232	1,453,566	57,908	452,125	8,454,948	44,079,213	1936
1937	2,101,154	21,590,206	3,619,298	18,151,343	729,114	3,507,933	135,078	1,096,905	69,394	682,031	6,654,038	45,028,418	1937
1938	2,523,123	19,693,910	3,222,104	12,350,571	786,859	2,848,266	216,732	1,342,715	42,726	341,788	6,791,544	36,547,250	1938
1939	1,971,338	18,650,339	2,509,519	12,656,697	626,412	2,905,286	103,156	708,013	28,036	280,036	5,239,211	35,110,571	1939
1940	953,381	8,460,841	2,908,025	15,770,772	860,539	4,312,766	284,130	2,122,330	22,303	219,742	5,028,378	31,828,451	1940
1941	1,164,888	15,952,391	4,636,649	22,593,271	710,507	4,844,060	356,213	3,595,982	38,246	480,988	6,906,503	57,466,702	1941
1942	912,006	13,804,764	2,818,650	22,565,374	942,789	7,178,696	372,537	4,442,108	43,127	686,567	5,089,109	47,677,509	1942
1943	1,982,175	30,381,755	2,322,057	18,701,467	882,578	6,755,829	158,734	1,937,981	50,965	802,162	5,396,509	58,579,194	1943
1944	1,580,757	24,254,327	2,087,322	16,924,966	985,725	7,565,526	187,053	2,278,938	36,939	584,787	4,877,796	51,608,544	1944
1945	1,173,356	18,260,328	2,239,282	18,201,352	688,485	5,312,578	195,860	2,078,066	41,709	676,640	4,338,692	44,528,964	1945
1946	1,065,898	22,880,873	2,057,121	24,685,419	617,155	7,120,923	193,061	3,231,892	37,874	748,321	3,971,109	58,667,561	1946
1947	1,786,239	45,909,823	1,723,617	32,669,412	500,211	8,983,297	148,715	3,522,434	53,684	1,311,912	4,302,466	91,297,885	1947
1948	1,635,463	44,994,233	1,304,034	31,617,066	774,661	16,345,475	241,799	6,278,595	54,645	1,459,245	4,010,612	100,694,614	1948
1949	967,626	25,504,967	2,682,330	42,921,708	499,226	7,572,386	192,352	4,004,944	50,007	1,258,463	4,391,541	81,262,468	1949
1950	1,166,052	34,211,966	1,095,534	25,663,330	780,684	15,269,095	191,501	5,131,834	54,321	1,550,183	3,288,092	81,826,408	1950
1951	816,831	26,017,227	1,559,748	32,505,086	721,152	10,950,656	345,159	5,131,859	41,259	2,596,635	3,534,315	77,201,463	1951
1952	1,181,162	33,783,498	1,172,168	21,705,200	966,660	15,140,209	197,004	4,201,837	56,970	1,521,732	3,573,964	76,352,476	1952
1953	994,293	27,996,373	955,528	17,439,908	800,882	11,214,236	127,676	2,894,714	56,222	1,442,103	2,934,601	60,987,334	1953
1954	804,194	23,235,032	1,149,422	22,477,095	1,029,295	15,093,798	171,643	3,926,204	52,600	1,407,488	3,207,154	66,139,617	1954
1955	665,961	17,747,703	1,266,674	28,834,545	371,369	7,101,467	118,545	3,338,584	47,197	1,409,066	2,469,746	58,431,365	1955
Aver.	1,117,372	30,176,270	1,496,618	28,011,881	706,130	11,479,154	192,746	4,166,300	55,494	1,452,515	3,568,360	75,286,120	Aver.

NOTE: -Figures for the last year shown are Pacific Fisherman's own compilation from original sources, and include fish canned elsewhere from salmon caught in Alaska. Figures for previous years are from official Fish & Wildlife Service data, to which have been added fish canned elsewhere from fish caught and frozen in Alaska.

ESTABLISHED 1898

ANDERSON & MISKIN, LTD.

EXPORTERS

CANNED FISH

Canadian Salmon	California Pilchards
American Salmon	California Sardines
Canadian Herring	California Mackerel
Canadian Pilchards	California Squid

OFFICES

Colman Building
SEATTLE

260 California Street
SAN FRANCISCO

448 Seymour Street
VANCOUVER, CANADA

CABLE ADDRESS — MISKAND

1955-SOUTHEAST ALASKA CANNED SALMON PACK - 1955

COMPANY	CANNERY LOCATION	RED OR SOCKEYE		PINK		CHUM		COHO		KING		GRAND TOTAL (full cases)			
		1&4 lb. Tails	1/2 lb. Flat (8 doz)	Total	1 lb. Tails (8 doz)	Total	1 lb. Tails etc.	1/2 lb. Flat (8 doz)	Total	1 lb. Tails etc.	1/2 lb. Flat (8 doz)		1-lb. Tails		
1 Alaska Fisheries, Inc.	Juneau	460	456	600	(a) 1,000	1,000	(a) 1,550	1,550	(a) 167	(a) 3,317	1				
2 Amette Islands Canning Co.	Metakata	16	3,801	30,945	3,572	3,955	729	1,072	343	36,888	2				
3 Excursion Inlet Packing Co.	Excursion Inlet	1,161	3,817	18,533	15,742	16,908	1,734	2,108	3,842	43,202	1				
4 Farwest Wrangell Co.	Wrangell, etc.	1,557	2,201	5,985	7,588	7,927	1,899	2,239	3,412	13,467	4				
5 Fidalgo Island Packing Co.	Keitchikan (1)	814	814	22,543	2,448	2,448	1,300	1,300	4,138	27,114	3				
6 Haines Packing Co.	Pillar Bay (1)	177	177	6,237	558	558	181	181	1,300	27,114	5				
7 Hallett Packing Co.	Leinbow Cove	596	4,676	43	3,937	5,055	1,147	223	1,370	7,166	6				
8 P. E. Harris Co., Inc.	Juneau (2)	63	63	734	3,987	5,085	1,147	223	1,370	12,949	7				
9 Hood Bay Salmon Co.	Hood Inlet	3,452	3,452	16,702	(a) 1,334	1,334	(a) 306	306	306	2,456	8				
10 Hyabund Cooperative Assn.	Klawock & Metakata (3)	271	271	11,277	9,289	9,289	806	806	606	30,076	9				
11 Independent Salmon Canneries	Klawock	680	680	15,256	13,907	13,907	256	256	256	25,711	10				
12 Kayak Packing Co.	Keitchikan	253	253	9,568	1,644	1,644	354	354	354	17,957	10				
13 Kayler-Dahl Fish Co.	Klawock (1)	3,250	3,250	7,100	3,526	3,526	2,137	2,137	2,137	15,606	11				
14 Keku Canning Co.	Kake (4)	417	417	19,061	90	90	2,137	2,137	2,137	15,606	12				
15 Ketchikan Packing Co.	Ketchikan	538	538	7,201	1,500	5,000	273	7,000	7,000	30,850	13				
16 Klawock Oceanic Packing Co.	Klawock, etc.	312	312	16,878	4,945	4,945	598	273	273	23,125	14				
17 Libby, McNeill & Libby	George Inlet, Craig, Peters (5)	1,693	1,018	43,200	1,114	1,114	2,410	598	598	9,451	15				
18 Lutak Fish Co.	Lutak Inlet	1,067	1,018	321	16,878	52,124	221	221	221	18,897	16				
19 Nakai Packing Corporation	Keitchikan & Watertall	2,725	1,756	48,144	8,924	8,924	2,346	2,346	2,346	67,156	17				
20 New England Fish Co.	Chatham, Keitchikan, Watertall, etc., (9)	3,657	4,483	12,081	321	60,225	(a) 191	661	191	2,240	18				
21 Pacific American Fisheries, Inc.	Petersburg, Pillar Bay & George Inlet (7)	751	2,193	53,947	7,318	63,115	2,799	3,165	3,481	6,646	19				
22 Pacific Reeter Fisheries	Petersburg	45	2,139	141	24,712	26,045	1,333	601	601	6,348	20				
23 Pelican Packing Co.	Hyabund	120	45	54,728	6,030	54,869	5,747	1,486	1,334	99,165	21				
24 Pelican Processors, Inc.	Pelican	12,756	146	1,670	556	1,670	556	44	2,820	66,715	21				
25 Petersburg Seafoods, Inc.	Petersburg	(a) 671	26	(a) 651	4	661	214	44	44	2,315	22				
26 Pyramid Fisheries Co.	Petersburg	79	79	24,237	18,586	24,237	(a) 378	301	(16) 47	2,915	23				
27 Sitka Canning Co.	Sitka	1,098	671	6,062	(a) 2,144	6,062	(a) 942	221	301	68,800	24				
28 Todd Packing Co.	Todd (9)	305	1,099	8,750	(a) 1,981	8,682	(a) 942	221	942	9,819	25				
29 Trans-Pacific Fishing & Pack. Co.	Custom Canned	37	305	4,521	8,113	3,681	159	5	221	5,963	26				
30 Villa Food Products, Inc.	Sitka, Pelican, etc. (10)	54	305	4,521	2,180	4,521	99	243	243	18,276	27				
31 Wards Cove Packing Co.	Keitchikan	1,339	37	1,294	686	2,180	27	151	27	7,068	28				
32 Whiz Fish Products Co.	Kake & Juneau (11)	(b) 1,432	1,432	20,931	3,455	20,931	2,352	151	2,352	2,044	29				
TOTAL SOUTHEAST ALASKA CANNERIES		37,369	17,704	492,134	(b) 6,912	547,200	(b) 1,168	1,168	1,168	28,077	30				
TOTAL SOUTHEAST ALASKA SALMON SHIPPED OUT AND CANNED ELSEWHERE**		37,369	17,719	492,262	10,847	547,334	18,631	602	62,700	844,683	33				
OPERATOR	VESSEL OR SOURCE	SOUTHEAST ALASKA SALMON SHIPPED OUT AND CANNED ELSEWHERE**													
1 Northern Products Corp.	Shore Freezers, etc. (A)	15	15	128	13	134	5	18	3,514	3,514	3,681	1			
2 Northern Reeler Co.	"Reeler II" (B)	15	15	10	10	10	10	897	897	907	2				
3 Carl Robinson Co.	"Reeler King" (C)	15	15	128	23	134	5	28	(c) 2,129	(c) 602	2,731	3			
TOTAL SOUTHEAST ALASKA SALMON CANNED ELSEWHERE		37,369	17,719	492,262	10,847	547,334	18,631	602	7,142	7,319	7,319	3			
GRAND TOTAL		37,369	17,719	55,068	492,262	55,072	547,334	167,447	10,847	178,294	51,211	18,631	69,842	1,444	652,002

NOTES: - Four-pound cans are included with 1-lb. Tails, as follows: (a) All 4-lbs. (b) Includes 44 cases Reds, 69 Pinks, 127 Chums, 822 Cohoes and 7 Kings, custom-canned in Hallett plant, Juneau (1) F.P. shares from joint operations in Keitchikan Packing Co. and P.A.F. Petersburg plants. (2) Plant leased from Tahn Fisheries. (3) Custom-canned by Klawock Oceanic and Amette Islands plants. (4) Custom-canned by Whiz Fish Products Co., operating Kake cannery under lease. (5) Includes share from joint operation in P.A.F. Petersburg plant. (6) Includes share from joint operation in Nakai Watertall and fish custom-canned by Amette, Metakata. (7) Includes share from joint operation with F.I.P., Pillar Bay, and Libby, George Inlet. (8) Fish custom-canned by Petersburg Seafoods, Inc. (9) Custom-canned in P.E. Harris plant, Hawk Inlet, and Pelican Packing Co. (10) Custom-canned in Pelican Packing Co. and Sitka Canning Co. plants, and includes a little canned in Seattle by Crown Seafood Sales.

(11) Kake plant leased from Keku Canning Co., pack at Juneau (in 4-lbs.) custom-canned in Hallett plant. (12) Includes 109 full cases Haves. (13) Includes 2,217 cases (in Tails) custom-canned by New England, Chatham. (14) Includes 239 cases custom-canned at Metakata. (15) Includes share from joint operation in New England plants at Keitchikan and Chatham. (16) Haves, full cases. **Southeast Alaska "Freezer" fish were custom-canned in the following plants: (A) Tails, Crown Seafood Sales, Inc., Seattle; Haves, Sitka Canning Co., Sitka. (B) Whiz Fish Products Co., LaCrosse, included with Tails) in Seattle Seafoods plant, Seattle.

*New cannery.



Fishermen's Packing Corporation

CANNERS OF PUGET SOUND SALMON

SOCKEYE

*Snow Cap
Snowland*

COHOE

*Olympic
Green Breaker
Ocean Spray*

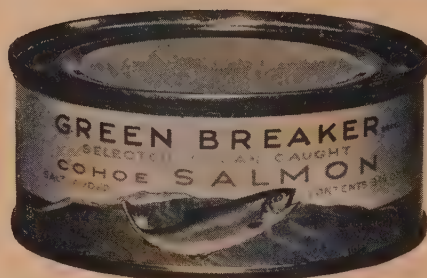
PINK

Waterfall

CHUM

*Golden West
Golden Glow*

**FISHERMEN'S
PACKING
CORP.**



OFFICE AND CANNER
ANACORTES, WASHINGTON

Southeast Alaska Canned Salmon Packs by Subdivisions

YAKUTAT AREA (Cases)						YEAR	CAPE FAIRWEATHER — DIXON ENTRANCE *					
Reds	Pinks	Chums	Cohoos	Kings	TOTAL		(Cases)					
11,686	5,774	275	15,331	3,216	36,282	1933	69,440	1,472,239	424,586	80,474	4,930	2,051,669
19,407	4,788	311	30,316	4,633	59,455	1934	84,991	2,617,574	393,901	128,211	10,961	3,235,638
20,006	4,966	148	15,766	2,081	42,967	1935	139,423	2,195,094	540,800	126,727	9,027	3,011,071
22,545	9,737	105	13,609	1,102	47,098	1936	195,462	2,915,407	778,234	121,113	19,403	4,029,619
17,470	7,826	385	11,242	1,794	38,717	1937	150,274	2,135,342	503,381	77,283	28,899	2,895,179
27,211	7,417	397	26,854	1,450	63,329	1938	165,380	1,879,352	474,056	116,911	14,920	2,650,619
25,463	2,237	47	9,301	1,629	38,677	1939	169,895	1,473,121	296,057	56,935	812	1,996,820
14,947	4,962	164	27,747	511	48,331	1940	110,661	1,453,109	485,623	126,333	713	2,178,439
18,624	4,505	566	41,402	799	65,896	1941	119,235	3,636,256	319,372	152,569	1,005	4,228,437
11,005	2,465	10	21,513	96	35,089	1942	105,506	1,753,582	596,171	156,409	1,950	2,613,618
18,096	1,618	—	12,606	234	32,554	1943	67,247	1,036,821	673,692	80,928	1,626	1,860,314
15,386	3,447	3	14,301	789	33,926	1944	116,922	1,082,648	663,505	74,543	1,008	1,938,626
18,079	795	105	18,018	576	37,573	1945	111,717	1,040,854	266,732	90,687	1,980	1,511,970
4,081	1,939	23	4,056	358	10,457	1946	54,348	997,975	322,597	88,891	2,058	1,465,869
5,632	1,169	255	4,052	160	11,268	1947	50,273	679,648	257,689	69,490	3,843	1,060,943
3,589	4,042	506	10,840	305	19,282	1948	36,118	680,400	406,887	148,384	5,380	1,277,169
—	—	No operation in 1949				1949	39,552	2,103,982	243,483	124,919	1,015	2,512,951
9,154	1,873	647	6,252	271	18,197	1950	36,720	533,789	499,775	110,092	195	1,180,571
11,748	1,675	725	11,732	95	25,975	1951	58,569	1,224,907	465,609	252,661	541	2,002,287
5,425	1,813	1,302	19,113	660	28,313	1952	69,085	591,609	526,658	103,164	2,096	1,292,612
—	—	No operation in 1953†				1953	125,958	353,247	410,384	86,479	1,414	977,482
—	—	No operation in 1954†				1954	112,711	524,220	589,800	82,839	2,542	1,312,112
—	—	No operation in 1955				1955	55,049	544,555	177,311	61,171	1,666	839,752
5,771	1,331	356	7,406	242	15,106	Aver.	75,010	927,519	416,692	121,878	2,273	1,543,372

ICY STRAIT DISTRICT (Cases)						YEAR	WESTERN DISTRICT (Cases)					
Reds	Pinks	Chums	Cohoos	Kings	TOTAL		Reds	Pinks	Chums	Cohoos	Kings	TOTAL
29,480	290,238	97,556	14,480	47	431,801	1933	—	—	—	—	—	—
32,035	340,032	97,572	20,291	3,216	493,146	1934	—	—	—	—	—	—
60,601	185,700	76,562	16,152	2,707	341,722	1935	—	—	—	—	—	—
69,191	349,700	183,036	20,791	5,583	628,301	1936	25,290	242,902	148,839	12,503	2,774	432,308
39,640	208,448	56,621	6,906	405	312,020	1937	18,477	194,675	90,053	5,616	24	308,845
46,526	158,698	52,890	14,058	215	272,387	1938	20,868	163,377	56,116	8,394	48	248,803
46,675	78,127	38,943	3,615	151	167,511	1939	24,839	87,137	35,328	3,628	36	150,968
18,846	121,320	74,615	13,409	262	228,452	1940	13,319	176,542	100,444	16,400	58	306,763
8,948	218,163	17,418	10,231	232	254,992	1941	16,962	562,046	56,078	22,368	456	657,910
10,964	118,790	44,834	8,311	248	183,147	1942	15,193	339,504	130,855	26,112	71	511,735
11,397	60,881	83,985	3,147	124	139,534	1943	16,266	123,318	177,210	9,039	55	325,888
21,568	123,896	67,537	3,830	77	216,908	1944	21,771	277,172	191,816	7,384	7	498,150
13,827	45,971	25,095	4,789	278	89,960	1945	23,247	109,183	65,431	6,585	19	204,465
6,315	26,449	31,376	4,366	60	68,636	1946	14,813	81,192	74,500	6,837	479	177,821
6,504	30,952	14,498	3,014	118	55,086	1947	17,718	92,612	57,592	14,658	837	183,417
501	2,745	6,893	1,239	—	11,378	1948	11,308	54,905	64,803	37,562	555	169,133
5,665	51,485	29,760	10,436	41	97,387	1949	12,580	378,876	43,136	29,721	442	464,755
3,362	3,287	25,164	5,473	22	37,308	1950	17,363	24,846	60,584	29,992	54	132,839
8,616	30,315	33,741	13,369	142	86,183	1951	16,195	147,996	107,998	65,040	6	337,235
11,169	17,919	26,184	7,355	217	62,844	1952	13,642	84,743	82,371	18,130	208	199,094
21,660	11,830	26,669	20,739	430	81,328	1953	26,068	34,900	108,921	3,187	86	173,142
8,590	13,369	25,831	1,547	90	49,427	1954	48,894	68,892	261,740	32,410	83	412,019
3,847	19,134	19,638	3,809	105	46,533	1955	26,045	87,457	79,547	15,752	256	209,057
9,006	25,345	26,485	7,621	151	68,608	Aver.	22,788	116,560	100,662	25,985	303	266,298

*Cape Fairweather to Dixon Entrance comprises all Southeast Alaska with the exception of Yakutat, therefore figures in this section are the total of all the following districts. Final data for Southeast Alaska has not been reported by subdivisions since 1949. †Catch canned at Icy Strait & Wrangell plants, NOTE:— Figures are based on U.S. Fish and Wildlife Service final data, which DO NOT include fish caught in these areas and canned elsewhere, and accordingly are somewhat different from those in other tables compiled independently by Pacific Fisherman. Figures for the latest year shown are preliminary. "Average" figures are for the last ten years.

ers of other districts haul fish from Cook Inlet to their plants for packing; but in 1955 at least there was a reverse tide as well, and to this fact and the good run of Pinks in Kodiak waters may be due the rather remarkable recovery of Cook Inlet's Pink production from the low level of 1953.

● Prince William Sound remained closed to fishing in 1955 for the second successive year of the complete restriction imposed in the hope of re-establishing the depleted runs—particularly Pink—in that formerly productive area.

Copper River, following its great

years of 1952 and 1954—which were the best in the history of that stream—seemed poor, with production on the order of 90,000 cases; but the 1955 pack was well up to the long-term average.

● Hopes that the former odd-year Pink pattern in Southeast Alaska might again manifest itself in 1955 were dashed by developments. Pack of this species was barely better than in 1954, and a dismal contrast to the great packs of former years.

Contributing in part to the low level of production of course was the high level of protection applied by the Fish and Wildlife Service in the

second effective season of its strong-medicine policy for restoration of the salmon resources of Southeast Alaska. Rigorous limits laid upon seasons, areas open to fishing, and number of active salmon traps could not have helped but have an effect upon the yield from the region.

Far below normal, Pinks nevertheless were equal to the year before, but in all other species there was marked shrinkage. This was manifest particularly in Chums, where the pack was less than one-third that of the previous year.

This decline in the run of Chums prevailed throughout the season, but was particularly marked in the fall

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CANNED SALMON: Copper River Chinook and Sockeye; Alaska Reds, Cohoe, Pinks and Chums; Puget Sound and Columbia River Salmon. Packed 48, 1½-lb. flats and 48, 1-lb. talls.

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PINKS—Sno-Time & Royal Pink

CHUMS—Sno-Tip

CRABMEAT
RAZOR CLAMS } Royal Red

TUNA—Royal Red
—Sno-Tip



Southeast Alaska Canned Salmon Pack by Subdivisions

EASTERN DISTRICT (Cases)						YEAR	WRANGELL DISTRICT (Cases)					
Reds	Pinks	Chums	Cohoos	Kings	TOTAL		Reds	Pinks	Chums	Cohoos	Kings	TOTAL
16,687	284,097	135,981	14,698	5,016	456,479	1936	25,405	326,866	93,544	27,726	1,085	474,626
8,923	323,556	65,931	6,904	8,257	413,571	1937	22,067	383,115	61,189	22,378	1,959	490,708
14,244	260,145	58,041	13,245	4,794	350,469	1938	18,492	217,161	59,652	20,433	86	315,824
11,730	217,432	53,199	7,179	317	289,857	1939	17,137	318,808	40,525	12,712	18	389,200
7,332	224,495	76,621	9,588	261	318,297	1940	21,306	165,783	73,544	32,040	26	292,699
9,079	601,161	64,880	9,210	113	684,443	1941	28,709	633,163	33,587	35,343	10	730,812
8,139	254,772	74,580	12,108	271	349,870	1942	22,212	167,742	67,652	42,730	895	301,231
7,192	93,048	110,912	5,452	799	217,403	1943	11,618½	120,730	80,696	17,431½	68	230,544
10,905	116,501	109,884	5,384	426	243,100	1944	16,065	59,256	66,069	9,024	17	150,431
10,168	94,505	29,267	4,010	207	138,157	1945	17,600	118,531	17,603	15,571	101	169,406
6,082	29,636	21,480	4,622	122	61,942	1946	6,417	66,258	16,017	18,894	173	107,759
5,342	38,272	28,935	3,960	510	77,019	1947	6,226	99,343	23,870	11,315	2,308	143,062
4,240	13,308	15,378	12,542	1,736	47,204	1948	7,260	53,860	55,460	22,799	2,971	142,350
92	43,944	6,055	8,661		58,752	1949	9,573	312,318	22,417	17,176	563	362,047
5,015	13,028	32,096	3,096	183	53,418	1950	7,190	36,846	44,815	30,849	55	119,755
1,146	74,522	68,391	20,777	168	165,004	1951	16,405	189,750	88,994	81,353	315	376,817
1,986	51,015	41,246	6,468	2	100,717	1952	13,445	78,552	80,763	30,359	1,413	204,532
8,713	12,333	25,930	3,905	6	50,887	1953	19,281	40,718	84,904	22,356	645	167,904
2,323	15,057	59,044	800	23	77,247	1954	21,116	65,357	110,282	20,844	1,633	219,232
2,143	40,054	13,757	3,517	100	59,571	1955	8,205	122,563	25,137	14,526	472	170,903
4,725	42,567	34,168	7,236	306	88,992	Aver.	13,272	118,409	57,026	28,605	1,064	218,376

SOUTH PRINCE OF WALES ISLAND DISTRICT (Cases)					YEAR	SOUTHERN DISTRICT (Cases)					REGIONAL GRAND TOTAL
Reds	Pinks	Chums	Cohoos	TOTAL		Reds	Pinks	Chums	Cohoos	TOTAL	
25,716	620,300	104,038	33,170	783,224	1936	60,217	1,222,241	192,641	32,834	1,507,933	4,067,717
23,545	345,068	65,613	33,908	468,134	1937	36,031	671,257	165,508	17,098	889,894	2,933,896
20,395	329,083	81,737	39,708	470,923	1938	44,399	749,432	162,473	27,346	983,650	2,713,948
22,107	207,989	45,249	11,648	286,902	1939	46,699	549,500	80,549	16,427	693,175	2,035,497
11,283	251,718	58,655	19,001	340,657	1940	36,652	503,005	89,092	35,881	673,630	2,226,770
11,548	584,582	55,624	33,178	684,932	1941	42,980	1,012,240	99,344	38,846	1,183,450	4,294,333
12,091	337,418	96,628	36,901	483,038	1942	37,713	533,057	181,262	28,308	780,340	2,648,707
5,656	162,482	75,217	15,780	259,135	1943	23,660	473,156	165,752	29,537	692,105	1,892,868
7,790	144,209	94,371	18,816	265,186	1944	38,465	349,073	132,735	29,482	549,755	1,972,552
11,217	225,606	43,240	26,274	306,337	1945	33,735	418,327	77,829	30,873	560,764	1,506,662
6,141	203,887	67,452	17,340	294,820	1946	16,994	582,377	101,901	35,336	736,608	1,458,043
4,626	110,324	42,141	12,150	169,241	1947	9,279	308,929	88,107	22,248	428,563	1,067,656
2,886	163,397	64,240	26,125	256,648	1948	9,661	388,325	192,232	39,446	629,664	1,275,659
3,014	406,385	41,200	17,701	468,300	1949	8,561	909,596	100,512	41,364	1,060,033	2,511,274
2,591	182,381	83,659	16,199	284,830	1950	6,231	273,449	247,876	28,779	556,335	1,202,682
4,686	127,347	44,407	27,598	204,038	1951	13,438	592,425	124,633	38,474	768,970	1,964,222
10,952	103,694	28,715	15,632	158,993	1952	17,775	241,256	250,056	25,748	534,835	1,289,328
17,320	102,773	24,824	14,673	159,590	1953	32,916	150,693	139,136	21,886	344,631	977,482
15,235	53,063	43,073	10,435	121,806	1954	16,553	308,482	89,380	17,516	432,381	1,312,112
5,261	77,154	12,053	5,500	99,968	1955	9,548	198,193	27,179	18,800	253,720	839,752
8,393	175,601	49,500	18,963	252,457	Aver.	17,469	437,205	143,929	32,047	630,650	1,190,475

NOTE: — Small quantities of Kings have been included with Cohoes in the last two districts listed. Final data for Southeast Alaska has not been reported by subdivisions since 1949. Figures are based on U. S. Fish and Wildlife Service final data, which DO NOT include fish caught in these areas and canned elsewhere, and accordingly are somewhat different from those in other tables compiled independently by Pacific Fisherman. Figures for the latest year shown are preliminary. "Average" figures are for the last ten years

season, when fishing was so poor that all of the plants suspended operation after only a few days of short pack and long losses.

● Limitation on fishing intensity is to be applied to future operations in a number of critical areas in Alaska under a new policy announced by the

Fish and Wildlife Service in 1955—a policy which would apply for the first time measures of licensing or other device which would have the effect of reducing the concentrations of gear and effort which in recent years have presented such a serious problem in effective administration in the interest of conservation.

Details by which this would be done were not available at the time this was written, but the Service had announced its definite intention to apply one or another of several alternatives aimed at control of fishing intensity, as well as of time and place and method.

BRISTOL BAY SALMON PACKS

(Based on preliminary data, not identical with final figures shown in some other tabulations.)

YEAR	NUSHAGAK	NAKNEK-KVICHAK	EGEGIK	UGASHIK	TOTAL	YEAR
1940	166,208	26,788	16,435	.....	450,229	1940
1941	172,835	417,564	29,894	3,555	623,848	1941
1942	196,671	222,281	.....	48,239	467,191	1942
1943	282,100	958,144	.....	78,110	1,318,354	1943
1944	270,034	588,414	44,113	80,241	982,802	1944
1945	222,738	351,638	.....	67,577	641,953	1945
1946	151,216	424,904	22,671	48,534	647,325	1946
1947	220,181	1,015,245	73,422	63,408	1,372,369	1947
1948	262,581	829,407	96,488	127,692	1,316,168	1948
1949	79,173	346,287	84,294	53,266	563,020	1949
1950	115,019	345,587	59,992	65,957	586,555	1950
1951	31,143	239,289	43,590	25,090	339,112	1951
1952	81,720	600,009	52,277	21,594	765,600	1952
1953	36,544	342,266	63,818	48,455	488,083	1953
1954	51,446	149,730	59,872	92,639	353,687	1954
1955	85,573	208,096	28,635	25,794	348,098	1955

NOTE: — The above table covers fish canned in the district; and does not include fish frozen on Bristol Bay and subsequently canned elsewhere.



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1955-BRITISH COLUMBIA CANNED SALMON PACK-1955

	# Can-neries	(Cases)							
		Sockeye	Springs	Steelheads	Bluebacks	Coho	Pinks	Chums	TOTAL
District No. 1 (FRASER RIVER & HOWE SOUND)									
Anglo-B.C. Packing Co., Ltd. - "Phoenix"	21	244,900	18,003	1,801	10,541	175,164	830,602	125,219	1,406,230
British Columbia Packers, Ltd. - "Imperial"									
Canadian Fishing Co., Ltd. - "Home"									
Capilano Fishing & Canning Co.									
Great West Packing Co., Ltd. - "Great West"									
Johnston Fishing & Packing Co., Ltd. - "Glen Rose"									
Francis Millerd & Co., Ltd. - "Great Northern"									
National Fisheries, Ltd. - "National"									
Nelson Bros. Fisheries, Ltd. - "St. Mungo"									
Queen Charlotte Fisheries, Ltd. - "Bidwell"									
Tulloch Fisheries, Ltd. - "Tulloch"									
Western Fisheries Co., Ltd. - "Canadian Beauty"									
District No. 2 (SKEENA & NAAS AREAS)									
Anglo-B.C. Packing Co., Ltd. - "North Pacific"									
British Columbia Packers, Ltd. - "Sunnyside"									
"Rupert Cold Storage"									
Cassiar Packing Co., Ltd. - "Cassiar"									
Canadian Fishing Co., Ltd. - "Oceanside"									
Nelson Bros. Fisheries, Ltd. - "Port Edward"									
District No. 2 (CENTRAL AREAS, etc.)									
British Columbia Packers, Ltd. - "Namu"									
Canadian Fishing Co., Ltd. - "Goose Bay"									
J. H. Todd & Sons, Ltd. - "Klemtu"									

NOTE:- Figures are preliminary statistics of the Canadian Fisheries Department and are subject to later correction. Publication of statistics for the pack by districts in British Columbia has been discontinued, because present operating practice, in which fish from one district may be canned in another tends to confuse and impair information based on quantities canned within specific areas. Figures are for full cases of 48 one-pound cans or equivalent.

● Smallest pack of Sockeye in a dozen years and poor volume of Chums were disappointing aspects of British Columbia's salmon season. The short pack of Sockeye came as a let-down after 1954's great record.

But the picture wasn't as grim as this might indicate, because Pinks were in abundance, with the pack of more than 830,000 cases biggest since the million-case year of 1930—the all-time high. It was a good season for Cohoes, too, with a pack of over 175,000 cases, the largest since 1951.

Total salmon pack for the season of 1,406,230 cases, according to the preliminary figures of the Department of Fisheries, was the lightest since 1948.

While the higher prices prevailing for all grades of canned salmon due to the general market shortage and the comparatively strong position of Pinks helped to level out the economic situation, for many fishermen 1955 was regarded as a relatively lean year and there were renewed pleas for some form of government relief to compensate for the season's losses.

Generally speaking, however, the season was regarded as fairly good, from the standpoint of production. The major companies maintained the same number of canneries as in other recent years and while they were not as busy as in 1954 by any means, they were active throughout the season.

● **PROBLEMS**—The season was not without its complications, and one of the more serious ones was a threatened deficiency in escapement in some areas. This called for somewhat drastic closures to insure sufficient stocks for spawning. The situation was further aggravated in November by near-disastrous floods in the lower tributaries of the Fraser River, where it was feared that in some cases the losses might run as high as 75 percent or even more.

There was also the problem of fishing intensity and the increasing efficiency of gear, and this created a controversial issue affecting all branches of the salmon industry as well as the government and the International Pacific Fisheries Commission whose biologists found it more and more difficult to make their calculations and provisions for long-term conservation.

● **POWER'S THREAT**—Another cause for worry throughout the industry was the increasing interest by waterpower groups in the Fraser River's hydro-electric potential. During the year the Canadian government authorized a survey to be carried out on the Fraser River to indicate the engineering feasibility of building a series of dams on the Fraser, and the Canadian section of the International Joint Commission talked about a gigantic diversion project to send a part of the Co-

lumbia River's waters through a man-made channel or tunnel into the Fraser to build up the Fraser's energy potential. While this was not considered in many quarters as a practical measure in view of the enormous costs as well as the threat to the established salmon fishery, there was no doubt that it was being seriously discussed at high government levels if only as a bargaining factor in the over-all maximum utilization of the Columbia's waters in British Columbia as well as in the state of Washington. It was an issue that the fishing industry could not afford to ignore, and during the year many efforts were made to impress on the Canadian government and other authorities the seriousness of tampering with the salmon resource through the building of power dams, especially in view of the possibility that within the foreseeable future the development of atomic energy might make such dams obsolete—after the salmon fishery had been perhaps irrevocably damaged. The industry at least demanded that full recognition be given to the salmon resource in any engineering projects affecting the salmon spawning areas. It did succeed in obtaining from the federal minister of fisheries the statement that, if it became a question of salmon or power, salmon would be given preference; but this was only a minister's assurance, and the composition of Canadian cabinets is subject to change.

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BRITISH COLUMBIA CANNED SALMON PACK

YEAR	Sockeyes Fraser River	Sockeyes Other Districts	Total Sockeyes	Springs	Cohoos & Bluebacks	Steelheads	Pinks	Chums	TOTAL Cases	YEAR
1903	204,809	163,908	368,717	25,657	51,918	....	27,382	....	473,674	1903
1904	72,688	250,536	323,226	38,675	66,351	....	....	37,642	465,894	1904
1905	837,489	243,184	1,080,673	28,359	44,458	....	13,970	....	1,167,460	1905
1906	183,007	276,672	459,679	32,344	69,132	....	68,035	....	629,460	1906
1907	59,815	254,259	314,074	26,098	87,900	683	118,704	....	547,459	1907
1908	63,126	291,897	355,023	28,164	81,917	1,137	76,448	....	542,689	1908
1909	542,248	298,193	840,441	19,017	61,918	....	46,544	....	967,920	1909
1910	133,045	432,870	565,915	28,789	74,382	140	34,613	58,362	762,201	1910
1911	58,487	325,022	383,509	48,456	119,702	100	305,247	91,951	948,965	1911
1912	108,784	335,778	444,762	80,437	165,102	207	247,743	58,325	996,576	1912
1913	684,596	287,582	972,178	41,049	69,822	....	192,887	77,965	1,353,901	1913
1914	185,483	351,213	536,696	49,328	120,201	....	220,340	184,474	1,111,039	1914
1915	89,040	387,002	476,042	58,104	146,956	2,927	367,352	82,000	1,133,381	1915
1916	27,394	187,395	214,789	66,726	183,623	9,982	280,644	240,201	995,065	1916
1917	123,614	116,234	339,848	76,276	157,589	11,740	496,749	475,273	1,497,475	1917
1918	16,849	259,610	276,459	107,354	191,068	15,916	527,745	497,615	1,616,157	1918
1919	29,628	339,817	369,445	100,551	199,993	4,493	346,639	372,035	1,393,156	1919
1920	44,598	306,807	351,405	118,301	120,033	2,395	520,856	84,626	1,187,616	1920
1921	35,900	128,014	163,914	49,752	124,348	1,220	192,906	71,408	603,548	1921
1922	48,744	250,870	299,614	39,596	109,276	1,657	581,979	258,204	1,290,326	1922
1923	29,423	305,224	334,647	27,142	119,141	1,760	440,932	418,055	1,341,677	1923
1924	36,200	333,403	369,603	27,456	119,989	1,811	657,538	568,916	1,745,313	1924
1925	31,523	361,120	392,643	73,499	199,180	1,996	445,400	607,904	1,720,622	1925
1926	83,589	253,406	336,995	69,189	181,894	2,165	772,993	701,962	2,065,198	1926
1927	57,085	250,947	308,032	58,977	181,968	1,746	247,617	562,109	1,360,449	1927
1928	26,530	177,011	203,541	18,856	156,757	865	792,362	863,256	2,035,637	1928
1929	60,407	220,899	281,306	19,377	196,444	672	477,969	424,982	1,400,750	1929
1930	107,896	369,782	477,678	38,804	190,594	1,656	1,111,937	401,114	2,221,783	1930
1931	54,688	236,776	291,464	27,147	102,175	1,326	206,995	55,997	685,104	1931
1932	83,447	200,908	284,355	76,060	188,971	1,168	223,716	306,761	1,081,031	1932
1933	53,481	204,626	258,107	20,266	159,052	1,459	532,558	293,630	1,265,072	1933
1934	145,579	232,303	377,882	29,784	225,430	1,282	435,364	513,184	1,582,926	1934
1935	76,415	274,029	350,444	21,920	231,492	596	514,966	409,604	1,529,022	1935
1936	165,651	249,373	415,024	29,854	246,061	1,068	591,532	597,487	1,881,026	1936
1937	103,137	222,637	325,774	16,171	133,208	844	585,576	447,602	1,509,175	1937
1938	186,794	260,659	447,453	15,531	301,123	1,035	400,876	541,812	1,707,830	1938
1939	73,216	196,672	269,888	16,103	245,096	797	620,602	386,584	1,539,070	1939
1940	86,215	280,188	366,403	17,741	224,524	1,205	213,911	643,443	1,467,227	1940
1941	149,715	305,582	455,297	50,476	391,407	3,454	427,766	920,470	2,248,870	1941
1942	418,491	248,080	666,571	24,745	211,139	4,649	270,622	633,834	1,811,560	1942
1943	72,507	92,382	164,889	10,658	186,042	3,095	530,188	363,348	1,258,221	1943
1944	107,431	140,283	247,714	19,362	183,546	3,926	389,692	255,316	1,097,557	1944
1945	122,384	205,617	328,001	12,800	218,887	2,922	825,512	350,188	1,739,311	1945
1946	381,580	161,447	543,027	8,100	100,154	4,115	116,607	576,133	1,348,138	1946
1947*	91,238	195,259	286,497	10,017	146,293	3,268	600,787	486,615	1,533,478	1947
1948	83,986	176,656	260,642	16,438	207,116	5,665	321,721	496,553	1,308,137	1948
1949	116,171	143,649	259,821	21,163	215,376	2,374	709,992	227,737	1,436,464	1949
1950	239,333	168,708	408,041	9,133	116,642	3,243	446,516	498,984	1,482,560	1950
1951	260,258	168,041	428,299	13,698	312,845	3,656	736,093	461,806	1,956,397	1951
1952	213,408	235,766	449,174	9,064	64,095	3,752	675,836	91,514	1,293,435	1952
1953	176,097	334,050	510,147	13,048	110,164	3,031	794,764	394,113	1,825,267	1953
1954	486,805	193,913	680,718	14,080	128,080	3,734	335,550	580,574	1,742,736	1954
1955	94,500	150,400	244,900	18,003	185,705	1,801	830,602	125,219	1,406,230	1955
10 Year Average	226,506	213,421	439,927	14,554	180,536	3,756	639,398	428,944	1,707,115	10 Year Average

NOTE: - Figures for 1925 to 1954 have been corrected from official statistics. Figures for 1955 are subject to further correction. Figures for "Fraser River Sockeyes" include all Sockeyes canned in District No. 1, regardless where caught.
 *Figures for 1947 include 28,321 cases packed from frozen fish of 1946 catch of various species.

A team of experts representing the fishing industry made a survey of the over-all fishery situation in British Columbia during the year and in its reference to "fish and power" it expressed this view: "It is inconceivable that a government would grant the water rights for that purpose (damning the Fraser) when a non-fish producing river, the Columbia, has a power potential of over 3,000,000 h.p. and is located less than 200 miles further from the lower mainland (of B. C.). Although the need for adequate hydro power or other sources of energy, in industry and the home, is widely recognized, it is our opinion that the people would never permit the destruction of a great perpetual food resource in

order to obtain this power a fraction of a mill cheaper. If the annual loss of fish is added to each year's cost of production, it can be shown that power from the Fraser River would be much more expensive than from the Columbia River."

The year was also marked by renewed overtures for an international treaty to provide for long-term study and regulation of the Pink fishery, the Canadians taking the initiative in this matter.

While Canadians participated to a greater extent than in former years in the offshore salmon fishery, it was still

too early to indicate the extent of this development as a permanent trend.

● As has been manifest for so many years, northern British Columbia's salmon production of 1955 was relatively much better than that of Southeast Alaska, with all its geographical proximity and biological relationship.

The Canadian production was marked by the big year in Pinks—one of the best packs the province has ever known, well above 800,000 cases. Sockeyes were down sharply, with the lowest pack in a number of years; and Chums were very poor indeed, although the production of Cohoes was far better than the average of recent seasons.

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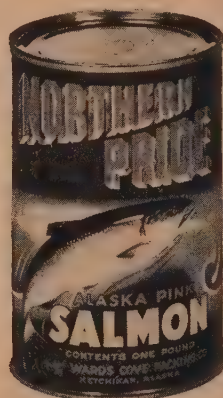


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Frank B. Peterson Co.

SEATTLE, WASHINGTON

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"DEEP SEA" BRAND — Alaska Red Salmon, Fancy Albacore Tuna, Minced
Razor Clams and Dungeness Crabmeat.

"ROYAL CLUB" BRAND — Alaska Pink Salmon.

"JACK FROST" BRAND — Alaska Red Salmon and Albacore Tuna Flakes.

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1955-PUGET SOUND CANNED SALMON PACK - 1955

COMPANY	CANNERY LOCATION	S O C K E Y E			P I N K			C H U M			C O H O O R S I L V E R			K I N G O R C H I N O O K			GRAND TOTAL (Full Cases)
		1#Tails & 4# Flats etc.	1/2 & 1-lb. & Flats (48 lb.net)	Total	1-lb.Tails & 4-lb.Flats etc.	1#lb. Flats (48 lbs. net)	Total	1-lb.Tails & 4-lb.Flats etc.	1/2 & 1-lb. & Flats (48 lbs. net)	Total	1-lb.Tails & 4-lb.Flats etc.	1/2 & 1-lb. & Flats (48 lb.net)	Total	1-lb.Tails & 4-lb.Flats etc.	1/2 & 1-lb. & Flats (48 lb.net)	Total	
1 Alaska Packers Association	Blaine	...	10,874	10,874	40,586	1,802	42,388	420	960	1,258	1,725	2,983	57,267	...	62	62	57,267
2 American Packing Co.	Anacortes	...	7,011	7,011	25,043	4,035	29,078	6,321	1,683	8,004	1,796	3,672	47,765	...	...	...	47,765
3 Burt Canning Co.	Bellingham	(12)818	11,568	2,386	9,364	2,506	11,870	167	45	212	(1) 272	661	16	...	...	...	15,129
4 Columbia River Packers Assn., Inc.	Bellingham	...	11,016	11,016	33,393	3,381	36,774	1,333	10	1,343	145	2,487	682	...	...	...	51,781
5 Crown Seafood Sales, Inc.	Seattle	426	16	442	(a) 677	677	677	(a) 3,327	...	3,327	(a) 791	33	2,834	...	...	...	7,600
6 Dressel-Collins Fish Co.	Seattle	904	904	904	548	9,149	9,697	(c) 3,562	252	2,814	(c) 2,444	...	2,834	...	...	...	16,264
7 Farwest Fishermen, Inc.	Anacortes	...	(2) 6,914	6,914	30,162	5,537	35,699	2,488	38	2,526	(2) 3,983	3,983	49,721	...	(2) 589	589	49,721
8 Fishermen's Packing Corporation	Anacortes	...	(3) 8,387	8,387	26,414	37,561	63,975	85	1,480	1,565	(3) 5,395	5,340	80,583	...	1,116	1,116	80,583
9 Food Specialty Co.	Seattle	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6,297
10 Friday Harbor Canning Co.	Friday Harbor	...	(4) 2,419	2,419	(e) 4,102	2,199	6,301	(d) 3,331	46	3,877	(d) 557	101	658	...	(d) 1,762	1,762	8,297
11 Harbor Seafoods	Seattle*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8,823
12 Iversen Canning Co.	Point Roberts	(b) 3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
13 John C. Jackson, Inc.	San Juan Isl.	...	(5) 3,188	3,188	3,800	2,116	5,916	67	1,705	2,954	(b) 12	...	12	...	(b) 6	...	14,771
14 Kayler-Dahl Fish Co.	Seattle	...	500	500	1,250	1,250	1,250	2,500	1,800	4,300	800	1,600	2,400	...	...	...	8,550
15 Nakai Packing Corporation	Anacortes **	...	4,062	4,062	15,365	2,555	17,920	199	104	303	91	1,075	1,166	...	...	...	23,551
16 Netro Packing Co.	Point Roberts (A)	...	499	3,891	(f) 33,375	3,374	36,149	398	...	20,234	(i) 2,527	1,235	3,762	...	504	...	26,234
17 New England Fish Co.	Everett, etc. (B)	...	3,891	4,350	(f) 33,375	3,374	36,149	398	...	20,234	(i) 2,527	1,235	3,762	...	504	...	45,803
18 Northwest Distributors, Ltd.	Anacortes (C)	...	43	3,613	12,477	5,154	17,631	(g) 2,722	728	3,450	(g) 1,515	268	1,783	...	(g) 148	...	26,700
19 Pacific American Fisheries, Inc.	Bellingham	...	13	14	14	97	4,126	(b) 378	284	662	(b) 5,247	28	5,652	...	(7) 95	95	136
20 Perfection Smokery	Seattle	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10,454
21 San Juan Fishing & Packing Co.	Seattle (D)	...	(6) 615	615	(b) 3,714	3,714	3,714	(b) 290	1,464	1,464	(8) 1,174	156	1,56	...	...	...	5,793
22 Scheerer Canning Co.	Bellingham	...	51	51	958	958	958	2,565	...	2,565	156	...	156	...	...	...	3,730
23 Sea-Pac Company, Inc.	Anacortes	...	(9) 5,636	5,636	(i) 13,606	3,074	16,680	(i) 441	40	481	(i) 1,008	(9) 807	1,815	...	(9) 147	147	24,759
24 Sebastian-Stuart Fish Co.	Seattle (D)	...	46	46	964	500	1,464	1,224	1,224	2,571	(i) 2,915	(10) 2,915	5,412	...	...	...	1,727
25 Ward's Cove Packing Co.	Seattle (D)	...	(10) 5,047	5,047	10,037	10,037	33,867	1,224	2,571	2,571	(i) 2,915	(10) 2,915	5,412	...	...	...	46,897
26 Washington Fish & Oyster Co.	Seattle	...	(k) 46	(11) 8,213	(k) 31,987	2,419	34,406	(k) 4,997	41	6,008	(k) 6,011	(11) 2,097	8,108	...	(k) 2,336	...	56,139
27 Whiz Fish Products Co.	Seattle	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6,000
Miscellaneous**	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6,000
TOTAL	...	1,886	83,881	85,767	314,461	96,746	411,207	61,304	32,552	73,856	30,665	30,291	60,956	4,890	2,449	7,339	639,125

NOTES: - As far as possible, Alaska fish canned on Puget Sound are included from this table and tabulated with the Alaska packs, though some small quantities that could not be segregated are included here. Alaska salmon canned on Puget Sound but tabulated elsewhere totaled 75,364 full cases, including: from Bristol Bay, 39,915 Reds, 3,160 Chums and 48 of other species; from Central Alaska, 23,461 Pinks and 2,107 others; from Southeast Alaska, 126 Pinks, 23 Chums and 7,142 others. Packs of fish from British Columbia are included here, but are probably incomplete, as data on some packs were not available.

The principal packs canned in plants of other companies are noted as follows: (A) Iversen Canning Co.; (B) Party in Scheerer and Whiz plants; (C) Farwest plant; (D) Washington Fish & Oyster and other plants.

**Estimated, mostly Canadian fish, but includes some from Alaska.

FOUR-POUND cans are included with Tails, as follows: (a) 443 cases Pinks, 145 Chums, 1,421 Cohoes; (b) All 4-lbs. (c) 11 Chums, 29 Cohoes; (d) 1,676 Cohoes, 404 Cohoes, 743 Kings; (e) 960 Pinks, 5 Chums; (f) 2,277 Pinks, 144 Cohoes; (g) 2,705 Chums, 1,474 Cohoes, 5 Kings; (h) 2,520 Pinks, 5,151 Cohoes; (i) 2,286 Pinks, 197 Chums, 694 Cohoes; (j) 392 Pinks, 745 Cohoes; (k) 8 Sockeyes, 16,496 Pinks, 3,138 Chums, 3,556 Cohoes, 1,762 Kings.

QUARTER-POUND CANS (basis 48 lbs. net) are included with Halves, as follows: (1) 547 Sockeyes, 9 Cohoes; (2) 1,452 Sockeyes, 2,916 Cohoes, 16 Kings; (3) 4,842 Sockeyes, 2,480 Cohoes; (4) 985 Sockeyes, 317 Cohoes, 41 Kings; (10) 358 Sockeyes, 663 Cohoes; (11) 826 Sockeyes, 64 Cohoes.

TWELVE-OUNCE cans (basis 48 lbs. net): (12) Includes 771 full cases; (13) All 4-lbs., full cases; (14) Willapa Harbor fish, *New canneries. **Formerly owned by Anacortes Canning Co.

1955-RECAPITULATION OF ALASKA CANNED SALMON PACK - 1955

DISTRICT	RED or SOCKEYE			PINK			CHUM			Medium RED or COHO			KING or CHINOOK			GRAND		
	1-lb. Tails	1-lb. and 4-lb. Flats	$\frac{1}{2}$ -lb. Flats (8 doz.)	TOTAL	1-lb. Tails	$\frac{1}{2}$ -lb. Flats (8 doz.)	TOTAL	1-lb. Tails	4-lb. Flats (8 doz.)	$\frac{1}{2}$ -lb. Flats (8 doz.)	TOTAL	1-lb. Tails & Flats, etc.	$\frac{1}{2}$ -lb. Flats (8 doz.)	TOTAL	1-lb. Tails & Flats, Etc.	$\frac{1}{2}$ -lb. Flats (8 doz.)	TOTAL	TOTAL (Full Cases)
Western Alaska	321,162	(a) 5,842	48,677	375,681	...	91	22,703	58	3,914	26,675	941	627	1,568	(c) 11,020	12,900	23,920	427,935	
Central Alaska	139,255	(d) 4,251	91,686	235,192	(e) 692,017	27,232	1,865	7,967	166,400	(f) 42,981	4,154	47,135	(g) 8,897	12,936	21,833	1,189,809		
Southeast Alaska	35,404	(b) 1,965	17,719	55,088	(h) 492,262	55,072	547,334	4,889	10,847	178,294	(j) 18,631	69,842	(k) 1,286	156	1,444	852,002		
TOTAL ALASKA	495,821	12,058	158,082	665,961	1,164,279	82,395	1,266,674	341,829	6,812	22,728	371,369	95,133	23,412	118,545	21,205	25,992	4,719,746	

NOTES: - Salmon shipped, frozen or fresh, from the three regions of Alaska and canned elsewhere, is included, as far as possible, in the above figures for the regions of origin.

Can sizes not separately shown are included with others, as follows:
(a) Includes 3,908 cases #1 Flats and 1,394 #4; (b) All 4-lbs.
(c) Includes 5 cases #4; (d) Includes 2,786 cases #1 Flats and 1,465 #4.

(e) Includes 10,956 cases #4; (f) Includes 12,422 cases #4.
(g) Includes 84 cases #1 Flats and 26 #4; (h) Includes 4,775 cases #4.
(i) Includes 9,037 cases #4; (j) Includes 180 cases #4.
(k) Includes 602 full cases 1/2-lbs. (l) Includes 180 cases #4.

SALMON COASTAL AREAS

1955-CANNED SALMON PACK OF COASTAL AREAS-1955

CANNERY		CHINOOK or KING			BLUEBACK or SOCKEYE			SILVER or COHO			CHUM	GRAND
COMPANY	LOCATION	1-lb. Tails	½-lb. Flats (8 doz.)	Total (Full Cases)	½-lb. Flats (8 doz.)	¼-lb. Flats (48-lbs)	Total (Full Cases)	1-lb. Tails	½-lb. Flats (8 doz.)	Total (Full Cases)	1-lb. Tails	TOTAL (Full Cases)
WASHINGTON												
1 Mohawk Packing Co.	Moclips	248	...	248	530*	1,334	1,864	21	...	21	1,835	3,968
2 Strand Fisheries	Hoquiam	...	...	...	474	1,125	1,599	...	...	...	1,688	3,287
3 West Coast Fish Co.	Aberdeen	...	...	...	...	...	...	...	...	...	3,934	3,934
TOTAL WASHINGTON COAST		248	...	248	1,004	2,459	3,463	21	...	21	7,457	11,189
CALIFORNIA												
1 Tom Lazio Fish Co.	Eureka	...	486	486	...	...	...	...	361	361	...	847
TOTAL COASTAL AREAS		248	486	734	1,004	2,459	3,463	21	361	382	7,457	12,036

NOTE: No canned salmon pack was reported on Oregon coast in 1955.

*Includes 154 full cases of "tips".

● Escapement percentages of the racial populations composing the Fraser River Sockeye run as a whole have become distinguishable through the development of a racial-identification technique of reading salmon scales by scientists of the Sockeye Commission staff.

This scientific tool is of the utmost importance in administration of the fishery in that it permits evaluation of escapement by catch sampling while the run is in progress and the fishery subject to manipulation to produce the desired escapement.

Applying this technique, the Sockeye staff determined the racial escape-ments by percentage of the individual racial populations comprising the total Fraser Sockeye run of 1955 as follows:

Race	Escapement Percentage
Early Stuart	1.5
Bowron	9.00
Pitt	11.0
Chilko	21.0
Seymour	16.0
Stellako	16.0
Adams	9.00
Lower River	25.00

The extremely low percentage escapement of the Early Stuart race resulted from the block and/or delay which occurred during the migration period just above Yale, B.C. An approximately normal escapement of this race was secured through the fishery, only to have the migrating fish blocked and killed, or rendered ineffective as spawners, by the extraordinary water conditions prevailing in the canyon. The escapement percentage given here is based on the actual numbers of fish reaching the spawning grounds.

The Bowron run also suffered from the block at Yale, losing about half of the number which escaped the fishery.



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• Puget Sound leaned heavily on Pink salmon in 1955, and production was fairly good, although not as large as had been anticipated by the more optimistic.

Sockeyes, at the low point of the four-year cycle, were not expected to yield heavily. One disappointing feature of the Sockeye run of 1955, already mentioned, was the small size of the fish, which required 11.8 to pack a case, against 9.6 fish in the cycle year.

Second adverse circumstance, important from the standpoint of its effect upon morale, although perhaps favorable as an antidote for overconfidence, was the failure of the 1955 cycle run to exceed that of the cycle year.

For several consecutive years the

rising level of Fraser River Sockeye abundance had seen each year establish a new record for each cycle, running far back into the history of the fishery. This repetition of record-breaking performance gave rise to an up-up-UP kind of confidence. Results in 1955 administered a mild set-back

PUGET SOUND CANNED SALMON PACK

Puget Sound salmon canning commenced in 1877 with a pack of 5,500 cases, but no segregation by species is available prior to 1889. From the beginning production increased, with much fluctuation, to 22,000 cases in 1887; the average for intervening years being 7,867 cases. Values shown are based on opening prices. "Average" figures at bottom of table are for last ten years.

YEAR	# of Plants Oper.	Sockeye		Pink		Chum		Coho		Chinook		TOTAL		YEAR
		Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value	
1888	4	...	...	...	...	...	...	...	...	...	...	21,975	\$126,356	1888
1889	2	...	...	2,809	\$7,584	1,145	\$3,435	7,480	\$37,400	240	\$1,200	11,674	49,619	1889
1890	1	...	...	...	...	4,000	12,000	3,000	15,000	1,000	5,000	8,000	32,000	1890
1891	2	5,538	\$24,921	5,647	15,246	3,093	10,825	5,869	19,368	382	2,101	20,529	72,461	1891
1892	2	2,954	11,816	...	...	16,180	56,350	7,206	24,500	86	473	26,426	93,419	1892
1893	3	47,852	103,371	17,530	47,331	11,380	31,295	11,812	59,060	1,200	6,480	89,331	247,537	1893
1894	3	41,781	188,014	9,049	24,432	22,152	60,918	22,418	89,672	...	...	95,400	363,036	1894
1895	7	65,143	273,108	23,633	62,556	38,785	94,741	50,865	154,218	1,542	7,325	179,968	591,948	1895
1896	11	72,979	350,299	...	...	26,550	73,013	82,640	264,448	13,495	67,475	195,664	755,235	1896
1897	12	312,048	1,248,192	57,268	171,804	23,310	64,103	91,900	282,133	9,500	39,045	494,026	1,805,277	1897
1898	18	252,000	1,058,400	...	...	38,400	105,600	98,600	335,240	11,200	50,624	400,200	1,549,864	1898
1899	19	499,646	2,368,334	252,733	734,241	31,481	86,427	111,387	418,176	24,364	103,180	919,611	3,170,358	1899
1900	19	228,704	1,149,000	...	...	89,100	245,025	128,200	512,800	22,350	134,100	469,450	1,940,925	1900
1901	...	1,105,096	...	275,494	...	...	...	...	...	...	...	1,380,590	...	1901
1902	21	339,556	2,047,655	...	...	93,492	467,460	85,817	429,085	30,049	150,245	548,914	3,094,445	1902
1903	22	167,211	1,003,260	181,236	407,984	12,001	30,002	103,450	413,800	14,500	72,500	478,398	1,929,546	1903
1904	13	123,419	653,871	...	...	49,656	124,254	118,127	447,851	14,441	69,352	305,643	1,295,328	1904
1905	24	847,122	4,952,718	70,992	212,976	41,057	102,643	79,335	337,174	1,804	9,922	1,040,310	5,615,433	1905
1906	16	182,241	1,251,236	...	...	149,218	708,781	94,497	472,485	8,139	48,834	430,602	2,481,336	1906
1907	14	93,122	698,416	433,423	1,300,269	50,249	150,847	119,472	476,288	1,814	16,326	698,080	2,642,146	1907
1908	22	170,951	1,196,657	6,075	18,225	47,607	142,821	128,922	644,922	95,210	664,470	448,765	2,669,095	1908
1909	11	1,097,904	6,183,300	370,993	902,342	53,688	128,916	143,133	630,446	13,019	72,604	1,632,949	7,917,608	1909
1910	24	248,014	1,673,095	108	388	146,942	514,297	162,755	895,153	10,064	60,324	567,883	3,143,256	1910
1911	15	127,761	1,168,145	1,046,992	4,302,344	104,321	392,122	256,124	1,591,185	21,823	172,582	1,557,021	7,727,524	1911
1912	20	184,680	1,660,173	700	2,185	60,760	154,193	149,727	761,200	20,252	101,706	416,125	2,679,457	1912
1913	22	1,673,099	10,871,178	791,886	2,092,401	56,225	124,970	61,019	235,372	1,234	5,247	2,583,463	13,329,168	1913
1914	31	335,230	3,208,969	892	4,212	278,801	955,920	151,893	759,689	26,044	167,322	792,860	5,095,839	1914
1915	41	64,584	676,769	583,649	1,795,285	411,724	155,744	180,783	902,335	28,466	145,555	1,269,206	4,675,418	1915
1916	32	84,637	699,161	1,887	8,264	427,878	1,492,161	155,832	957,650	37,030	280,708	707,278	3,437,944	1916
1917	45	411,538	5,366,218	1,224,884	7,823,960	216,285	1,362,634	114,276	1,065,983	57,543	540,904	1,921,554	16,159,699	1917
1918	32	50,723	781,992	6,605	53,336	267,538	1,715,159	235,860	2,532,553	63,472	754,637	624,198	5,837,677	1918
1919	35	64,346	1,186,413	421,215	3,854,113	525,541	1,687,787	210,883	2,618,504	73,618	910,968	1,295,626	12,257,785	1919
1920	11	62,654	1,725,252	4,669	28,860	48,849	3,225,368	24,502	221,688	25,846	370,215	166,520	2,571,385	1920
1921	23	102,967	1,991,368	404,713	1,870,385	30,831	123,608	89,412	798,541	25,567	199,609	653,490	4,983,511	1921
1922	16	48,566	945,178	2,225	13,273	65,552	283,395	111,771	744,656	20,615	222,641	248,729	2,209,143	1922
1923	18	47,402	860,000	475,849	2,429,800	97,081	471,790	122,000	785,000	15,806	150,407	758,138	4,696,997	1923
1924	12	69,369	1,182,358	5,945	39,192	134,360	651,014	87,879	688,950	20,096	216,043	317,649	2,777,557	1924
1925	23	112,023	2,098,683	553,904	3,179,302	43,345	207,546	173,215	1,902,289	29,183	432,349	911,670	7,820,169	1925
1926	14	44,673	532,408	2,107	15,095	112,204	573,411	123,469	1,163,286	27,972	365,826	310,425	2,650,026	1926
1927	21	97,594	2,115,410	578,923	3,669,941	38,129	225,654	135,802	1,358,020	41,796	588,314	892,244	7,957,339	1927
1928	14	60,081	1,207,981	5,597	41,091	146,356	833,114	89,923	777,472	23,419	294,816	325,376	3,154,024	1928
1929	22	111,898	2,203,496	727,621	4,639,076	156,683	911,584	101,635	1,044,372	34,007	439,778	1,131,844	9,238,306	1929
1930	12	352,194	4,890,921	3,712	18,486	64,234	237,123	122,691	1,240,876	29,775	407,912	572,606	6,795,318	1930
1931	18	83,728	1,316,348	705,580	2,486,377	55,189	177,000	76,025	569,699	28,359	293,022	948,881	4,842,446	1931
1932	10	78,319	897,006	1,677	7,579	146,151	381,116	60,740	330,385	24,024	168,625	310,911	1,782,912	1932
1933	19	125,738	1,340,000	543,340	2,643,528	37,039	171,742	44,568	292,684	21,091	221,776	771,776	4,669,910	1933
1934	21	340,787	3,632,587	3,296	17,331	72,841	251,991	69,080	517,901	14,089	74,024	500,093	4,493,834	1934
1935	14	51,714	720,076	369,620	1,652,161	15,636	68,402	70,514	534,956	9,243	91,396	516,727	3,066,991	1935
1936	9	60,063	813,510	1,152	7,598	86,070	315,465	30,568	292,528	4,708	43,427	182,561	1,472,528	1936
1937	13	56,983	925,160	327,973	1,676,692	18,759	91,696	31,747	323,976	6,412	76,750	441,874	3,094,274	1937
1938	13	139,152	1,824,396	455	2,641	7,697	32,193	10,268	100,753	2,371	36,800	159,943	1,996,783	1938
1939	14	43,561	669,202	282,271	1,574,317	15,080	76,788	54,905	485,760	2,446	33,508	398,263	2,839,573	1939
1940	9	62,748	1,122,684	2,947	17,432	23,405	114,798	30,654	231,878	1,674	15,734	121,428	1,502,526	1940
1941	9	110,758	2,140,457	153,924	1,203,657	25,423	187,224	46,213	553,230	4,769	62,354	341,087	4,146,922	1941
1942	10	258,488	5,255,888	851	7,965	2,223	17,748	6,862	97,693	1,204	26,389	269,628	5,405,683	1942
1943	10	19,149	424,339	62,129	637,730	243	2,432	26,292	390,847	2,864	12,486	110,677	1,467,804	1943
1944	3	37,214	830,719	299	3,313	...	...	373	5,883	1,064	21,240	38,950	861,155	1944
1945	6	53,532	1,176,467	305,245	2,724,176	1,184	12,467	18,802	258,076	3,639	63,511	382,402	4,234,697	1945
1946	20	271,311	10,108,350	91	2,184	47,099	989,079	7,118	163,714	6,841	268,120	332,660	11,531,447	1946
1947	25	7,516	315,956	639,426	13,423,416	139,131	2,532,194	79,450	2,254,404	29,143	875,098	894,666	19,401,068	1947
1948	22	91,268	5,005,792	4,645	128,328	245,133	5,558,820	70,659	2,049,606	27,043	903,578	438,748	13,646,124	1948
1949	23	64,627	2,959,425	557,740	9,305,100	162,532	2,381,000	55,910	1,273,000	8,594	224,000	879,403	16,142,525	1949
1950	20	128,865	4,984,208	2,277	61,855	512,997	10,752,172	116,655	3,454,279	8,215	191,712	768,529	19,444,226	1950
1951	25	156,461	5,815,837	441,605	9,419,295	233,468	3,922,457	88,511	2,200,801	11,275	281,794	931,320	21,640,184	1951
1952	20	114,707	5,153,778	817	51,026	292,318	5,147,662	172,910	4,079,424	7,869	178,654	588,621	14,610,544	1952
1953	22	164,848	6,041,592	440,860	8,239,810	144,542	1,761,160	54,901	1,012,224	3,974	106,937	809,125	17,161,723	1953
1954	21	507,719	16,364,291	1,429	32,314	272,455	4,292,256	29,252	742,533	5,054	119,568	815,909	21,550,962	1954

CANNED SALMON PACK OF COASTAL AREAS

Year	WASHINGTON					OREGON				California	GRAND TOTAL Full Cases	Year
	Blueback	Chinook	Silver & Steelhead	Chum & Pink	Total Full Cases	Chinook	Silver & Steelhead	Chum	Total Full Cases	TOTAL (Full Cases)		
1919	1,244	5,029	17,174	39,995	63,442	26,089	43,114	7,081	76,284	22,766	162,492	1919
1920	235	921	405	26	1,587	30,571	4,490	...	35,061	21,055	57,703	1920
1921	2,590	2,010	4,897	5,281	14,778	15,632	122	...	15,754	10,376	40,908	1921
1922	26,491	2,573	13,354	10,939	53,357	12,270	11,769	2,248	26,287	9,700	89,344	1922
1923	10,454	1,794	5,172	38,523	55,943	10,526	22,606	14,279	47,411	6,000	109,354	1923
1924	6,778	1,506	5,493	32,760	46,537	16,351	30,449	14,603	61,403	12,936	120,876	1924
1925	4,821	3,810	6,679	35,342	53,276	22,404	18,872	14,410	55,686	22,339	131,301	1925
1926	2,720	2,441	3,182	17,377	25,720	19,130	7,033	4,838	31,001	11,537	68,258	1926
1927	5,260	4,195	1,983	25,452	36,890	17,456	13,390	181	48,619	15,585	101,094	1927
1928	2,000	52	415	34,109	37,031	5,411	8,136	5,500	19,047	4,237	80,515	1928
1929	4,449	213	1,158	35,699	41,519	4,700	2,313	8,047	15,060	2,774	59,535	1929
1930	21,536	49	2,160	11,846	35,519	11,252	981	...	12,233	5,171	52,995	1930
1931	8,476	61	501	11,225	20,263	4,234	...	8,600	12,834	12,280	45,377	1931
1932	14,263	308	1,152	22,236	37,959	8,524	...	...	8,524	780	47,263	1932
1933	6,754	845	424	7,735	15,758	7,150	...	500	7,650	2,149	25,557	1933
1934	3,323	2,344	1,453	15,370	22,490	4,100	...	2,000	6,100	820	29,410	1934
1935	6,217	3,685	10,009	7,351	27,262	2,500	...	2,400	4,900	874	33,036	1935
1936	705	1,137	1,883	16,038	19,763	...	...	9,500	9,500	...	29,263	1936
1937	2,865	176	82	7,932	11,055	2,400	...	...	2,400	147	13,602	1937
1938	1,559	...	...	13,173	14,732	...	...	...	...	...	14,732	1938
1939	...	...	...	6,381	6,381	...	...	2,200	2,200	...	8,581	1939
1940	138	23	504	9,142	9,807	647	643	1,000	2,290	...	12,097	1940
1941	24	...	...	27,428	27,452	1,000	2,500	5,400	8,900	1,125	37,477	1941
1942	1,235	...	...	17,492	18,727	1,450	200	9,000	10,650	...	29,377	1942
1943	...	100	402	5	507	1,038	...	...	1,038	767	2,312	1943
1944	...	750	161	132	1,043	1,961	2,567	...	4,528	864	6,435	1944
1945	...	4,005	2,096	5,287	11,388	...	...	...	...	2,755	14,143	1945
1946	3,694	2,398	5,185	17,225	28,502	16,104	4,806	663	21,573	5,034	55,109	1946
1947	12,450	3,014	13,023	10,060	38,547	7,383	8,379	...	15,762	13,917	68,226	1947
1948	4,021	1,805	12,060	8,642	26,528	7,553	7,052	...	14,605	11,681	52,814	1948
1949	7,577	419	3,856	6,285	18,137	827	55	...	882	...	19,019	1949
1950	3,969	2,755	8,034	12,902	27,660	3,190	4,817	...	8,007	1,801	35,667	1950
1951	2,643	1,495	4,161	12,597	20,896	500	50	...	550	707	22,153	1951
1952	877	1,807	5,267	15,000	22,951	184	1,011	...	1,195	2,042	26,188	1952
1953	455	642	320	11,141	12,558	...	...	...	...	436	12,994	1953
1954	4,240	5	58	11,755	16,058	...	...	...	...	2,162	18,520	1954
1955	3,463	248	21	7,457	11,189	...	...	...	...	847	12,036	1955
Average	3,992	1,834	5,406	11,089	22,322	3,574	2,617	66	6,257	4,054	32,483	Average

NOTE: - All figures indicate "Full Cases" on a common basis of 48 lbs. net, equivalent to 96 Halves or 192 Quarters; the bulk of the actual packing being 1-lb. Tails and 1/2-lb. Flats. For some years a few Puget Sound Pinks are included with Chums in the Washington Coast pack. A few Steelheads are sometimes canned in these areas. Where they occur, they are included with Silvers. The California pack consists almost entirely of Chinooks, but sometimes includes a few Silvers. "Average" is for the ten years preceding the current year.

to the Golden Dream which was perhaps a wholesome sedative.

In any case, the catch was approximately 91% of that for the cycle year 1951, which was exceptionally good, and the best year recorded in the cycle since 1903. Thus the ever-rising relationship of each season to its cycle suffered a mild reverse in 1955, although the catch of that year actually proved to be the best of the cycle in 52 years, with the single exception of 1951.

This statement is made in numbers of fish. When cases packed are taken as the measure of success, the picture is not quite so bright. Thus, the catch was 91% as good as that of 1951; but the pack was only about 70% of that for the cycle year.

Remember what we said about the individual fish being small, and 11.8 being required to pack a case?

• There were other adverse circumstances about the Fraser-Puget Sockeye situation in 1955.

The excellent early Stuart run contributed substantially to the fishery, and a generally satisfactory escapement moved upstream, only to encounter delay and/or block conditions

in the Fraser just above the town of Yale. This river condition was due to extremely high water resulting from the freshet at the time of Stuart migration, and delayed the fish so long as to threaten virtual extermination of the race in this cycle. There is a recognized possibility that this block above Yale may have operated from time-to-time in the past. It had never been detected before, and probably the conditions producing it are rather rare; but there remains the strong possibility that this condition, occurring now and then through the years, may have been responsible for the fact that the races native to the Stuart and Takla Lake systems, with their apparent tremendous potentialities, never built up to numerical strength reflecting the presumed potential of their native waters.

• Competitive pressure between the fishing fleets of the United States and Canada, directed essentially at the Pink salmon fishery of 1955, reached a peak which also reacted adversely upon administration of the Sockeye resource in such a way as to provide adequate spawning escapement from the most productive segments of the run, with equal division of the remainder between the national fleets.

The intensity of fishing pressure resulting from the large and highly competitive national fleets was further complicated by the fact that, seeking advantage in precedent position, the operations moved to sea, disturbing the pattern of production to which the administrative controls had been tailored. This produced a confused situation as the Sockeye Commission staff struggled to secure escapement and divide the catch of Sockeye, while interfering as little as possible with the Pink salmon fishery.

"We lost control of the situation". Loyd A. Royal, director of the Sockeye enterprise, declared frankly after the season had closed; "and were fortunate indeed to get even a reasonably acceptable escapement and an extremely close division of the catch".

• Spartan measures are forecast for control of the Fraser River Sockeye fishery in 1956, the international commission having indicated that it may close the entire ocean area to all fishing for that season. Moreover, the restrictions are expected to eliminate all seine fishing in Canadian waters, and to impose a closure of five consecutive days out of each week in the river gillnet fishery. The American fleets will be subject to closures cal-



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culated to produce similar restriction upon production in the interests of spawning escapement.

The commission's director, Loyd A. Royal, has warned that the prospective catch of 1956 will not greatly exceed that of 1955; and that it will come in a short, intense run, from which the task of securing an escapement—and a catch—will be particularly difficult.

● Further extension seaward of the Pink and Sockeye fishing activities of the Puget Sound and British Columbia fleets was the 1955 phase of a steady build-up by the Canadian industry—with the plain-spoken encouragement of the national government of Canada—seeking a larger share of the Pink salmon running to the waters adjacent to the international boundary.

Admitted intent of the strategy was to attain equal-or-greater share of the Pink catch, and thus to apply leverage which would nudge the Americans into acceptance of an international treaty with the objective of uniting and intensifying the effort at conservation and expansion of the Pink salmon population.

The Canadians were favored in their effort by the development of

COLUMBIA RIVER CANNED SALMON PACK

Salmon canning on the Columbia River commenced in 1866, with a pack of about 4,000 cases valued at \$64,000; but no segregation by species is available prior to 1889. Production increased rapidly to a peak of 629,400 cases in 1883, valued at \$3,147,000; then fell to 356,000, valued at \$2,124,000, in 1887; the average output for intervening years being 351,091 cases, valued at \$2,066,227. The "average" figures at bottom of table are for ten years through 1950.

YEAR	# of Can-neries	CHINOOK		BLUEBACK		SILVERSIDE		CHUM or KETA		STEELHEAD TROUT		TOTAL		YEAR
		Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value	
1888	28	...	...	...	...	...	...	...	...	...	...	372,477	\$2,234,862	1888
1889	21	266,697	\$1,600,182	17,797	\$101,051	...	...	...	...	25,391	\$108,587	309,885	\$1,809,820	1889
1890	21	335,604	1,946,087	57,345	290,069	...	...	...	...	42,825	171,300	435,774	2,407,456	1890
1891	22	353,907	2,038,566	15,482	284,242	...	...	...	...	29,564	118,156	398,953	2,440,964	1891
1892	24	344,267	1,996,388	66,547	372,909	4,176	\$20,880	...	...	72,348	288,892	487,338	2,679,069	1892
1893	24	288,773	1,559,374	30,459	152,295	29,107	116,428	2,311	\$6,933	65,226	260,904	415,876	2,095,934	1893
1894	24	351,106	1,896,976	43,814	224,430	42,758	171,032	...	...	52,422	209,688	490,100	2,501,126	1894
1895	24	444,909	2,428,658	18,015	86,523	99,601	329,683	22,493	62,591	49,678	203,542	634,696	3,110,997	1895
1896	24	370,943	1,804,511	16,983	81,518	44,108	141,145	...	...	49,663	198,652	481,697	2,261,826	1896
1897	22	432,753	1,804,221	12,972	51,888	60,850	197,762	...	...	46,146	165,440	552,721	2,219,311	1897
1898	23	329,566	1,490,394	66,670	300,015	65,431	222,465	...	...	26,277	60,352	487,933	2,073,226	1898
1899	17	255,824	1,458,175	23,969	134,723	29,608	112,055	11,379	33,836	11,994	39,186	332,774	1,777,975	1899
1900	16	262,392	1,821,258	13,162	92,184	44,925	202,163	17,696	63,706	20,597	102,985	358,772	2,282,296	1900
1901	...	...	...	...	...	...	...	...	...	...	...	390,183	1,942,660	1901
1902	14	270,580	1,428,743	17,037	86,465	10,532	44,732	10,401	41,604	8,593	42,965	317,143	1,644,509	1902
1903	16	301,762	1,610,614	8,383	42,867	12,181	49,869	10,000	37,500	7,251	36,255	339,577	1,777,105	1903
1904	20	320,378	1,944,690	12,911	78,048	31,254	118,357	20,693	52,691	9,868	48,892	395,104	2,242,678	1904
1905	19	327,106	1,962,636	7,768	46,608	26,826	114,011	25,751	65,206	9,822	49,110	397,273	2,237,571	1905
1906	19	311,334	1,868,007	7,816	54,712	41,446	124,338	27,802	69,505	6,500	32,500	394,898	2,149,062	1906
1907	19	258,433	...	5,504	...	31,757	...	22,556	...	5,921	...	324,171	1,763,490	1907
1908	14	210,096	...	8,581	...	31,432	...	16,884	...	10,726	...	253,341	1,380,708	1908
1909	15	162,131	1,203,546	27,908	214,561	42,178	185,070	24,542	57,115	17,283	99,796	274,087	1,760,088	1909
1910	15	244,285	1,882,137	6,234	34,287	68,922	363,688	66,538	232,883	5,436	31,203	391,415	2,544,198	1910
1911	15	405,862	2,204,185	5,988	47,904	79,416	549,478	53,471	203,198	8,594	47,399	543,331	3,052,164	1911
1912	15	220,317	1,988,526	8,210	85,384	31,842	177,248	18,699	46,590	6,958	22,108	285,666	2,319,856	1912
1913	15	192,116	1,664,670	11,152	93,677	40,969	175,412	13,303	29,486	8,939	49,142	266,479	2,012,387	1913
1914	17	289,464	2,573,502	35,311	376,924	69,769	380,666	49,285	205,541	10,792	59,356	454,821	3,595,969	1914
1915	19	406,486	3,694,361	5,459	56,707	33,336	173,234	86,530	251,632	26,723	129,358	558,534	4,305,292	1915
1916	20	395,166	3,572,203	3,790	27,288	52,084	335,114	77,766	307,483	18,999	118,987	547,805	4,361,075	1916
1917	20	403,637	5,023,529	7,968	111,552	64,299	700,680	53,659	386,596	23,783	292,538	555,218	6,530,939	1917
1918	20	400,952	5,222,983	37,833	605,328	98,145	1,072,843	29,846	215,669	24,605	350,071	591,381	7,466,924	1918
1919	21	392,125	5,455,550	7,268	145,360	90,728	1,142,767	75,493	541,989	14,414	205,254	580,028	7,490,920	1919
1920	22	407,487	5,661,580	2,617	62,808	27,024	257,806	18,792	99,564	12,645	116,859	481,545	6,198,617	1920
1921	20	260,582	3,761,321	6,045	120,900	34,381	233,372	4,821	19,791	10,142	68,266	323,241	4,203,649	1921
1922	23	237,230	3,724,393	30,743	614,860	90,437	633,935	8,844	47,130	24,920	186,675	392,174	5,206,993	1922
1923	23	289,586	4,967,657	38,309	766,180	101,554	673,954	25,508	135,168	25,968	187,965	480,925	6,730,924	1923
1924	22	293,716	4,508,236	7,366	129,840	112,308	992,865	57,748	303,356	29,734	285,107	500,872	6,219,404	1924
1925	21	250,809	5,423,129	5,650	106,220	113,554	1,488,855	55,812	272,398	14,637	177,866	540,452	7,468,468	1925
1926	21	295,302	4,744,131	21,736	434,720	97,142	1,027,597	32,853	181,216	32,690	356,418	479,723	6,744,064	1926
1927	22	339,446	5,559,202	6,887	147,378	74,879	585,816	68,449	425,240	30,148	311,070	519,809	7,028,705	1927
1928	24	251,404	4,355,218	4,814	100,131	49,136	478,355	124,953	747,619	16,339	222,139	446,646	5,903,462	1928
1929	21	242,938	4,234,214	10,072	181,296	90,684	917,561	54,619	314,928	23,804	257,025	422,117	5,905,024	1929
1930	21	281,346	4,092,810	9,823	194,460	110,430	1,156,042	11,371	43,324	16,535	171,541	429,505	5,658,177	1930
1931	20	294,798	3,754,929	4,125	66,000	39,268	247,878	3,518	11,754	11,980	110,429	353,699	4,191,000	1931
1932	15	216,511	2,023,390	2,795	33,540	46,492	280,853	17,261	44,879	13,132	91,924	286,191	2,474,586	1932
1933	14	251,157	2,719,303	6,921	96,894	36,430	263,190	24,398	107,351	17,805	142,440	336,711	3,329,178	1933
1934	13	251,068	2,630,152	6,869	82,428	55,428	536,731	24,455	92,608	14,901	121,000	362,721	3,462,919	1934
1935	10	205,870	2,479,450	1,302	17,619	95,184	725,868	15,495	59,499	14,888	122,846	332,739	3,405,282	1935
1936	11	220,188	2,964,058	9,837	137,718	36,541	303,263	30,597	110,149	19,282	317,867	316,445	3,833,055	1936
1937	11	291,343	4,256,819	7,526	126,436	69,801	725,996	30,592	138,309	17,568	189,734	416,830	5,437,294	1937
1938	10	173,892	2,707,267	13,889	260,369	67,257	630,364	37,704	143,275	15,248	152,480	307,990	3,893,755	1938
1939	10	207,595	3,336,206	5,301	102,359	69,082	730,549	15,201	75,416	25,293	320,025	322,472	4,666,141	1939
1940	11	244,570	3,785,681	23,974	471,530	59,737	623,681	25,282	125,420	33,436	373,514	386,999	5,379,826	1940
1941	11	328,609	5,558,254	33,070	661,400	35,727	481,834	83,144	572,994	33,162	453,502	513,712	7,727,984	1941
1942	12	274,750	5,692,929	23,256	625,230	26,541	497,070	118,051	911,538	21,803	429,678	464,401	8,156,445	1942
1943	11	130,373	3,094,505	2,880	77,586	5,707	61,065	12,439	112,421	16,261	323,874	167,660	3,669,451	1943
1944	10	163,047	3,714,591	758	20,342	12,210	137,072	1,525	11,590	19,222	375,838	196,762	4,259,433	1944
1945	8	132,014	3,095,228	112	3,001	22,154	244,060	1,032	8,848	19,314	363,068	*175,670	3,723,456	1945
1946	11	159,872	5,940,740	9,726	369,588	6,883	206,490	15,617	247,392	17,373	510,720	*209,471	7,274,939	1946
1947	10	250,318	8,613,000	15,079	664,000	42,789	1,278,000	17,121	252,000	21,999	650,000	347,306	11,457,000	1947
1948	12	235,310	9,342,000	3,339	147,000	39,425	1,099,000	26,201	498,000	19,977	615,000	324,242	11,701,000	1948
1949	12	133,347	3,682,000	** 6,630	225,000	16,740	415,000	12,386	186,000	9,019	221,000	178,122	4,729,000	1949
1950	11	136,635	4,934,201	3,630	146,687	29,507	939,296	12,952	234,457	10,266	360,830	192,990	6,645,471	1950
1951	10	143,046	5,497,305	4,552	186,543	29,099	841,234	11,566	192,850	14,862	469,615	203,125	7,187,547	1951
1952	9	95,353	3,506,181	9,824	413,774	29,701	875,780	13,759	214,837	18,979	612,987	167,616	5,623,159	1952
1953	8	97,320	3,267,303	3,014	127,791	24,219	676,237	9,775	130,062	19,420	616,621	153,199	4,823,332	1953
1954	8	71,993	2,550,257	8,485	336,212	12,670	367,000	12,530	190,484	13,379	458,303	119,057	3,902,256	1954
1955	8	116,138	4,349,750											

1955-COLUMBIA RIVER CANNED SALMON PACK - 1955

a fishery in the vicinity of Bonila Point, on the southwest coast of Vancouver Island, where the incoming Pink run appears to impinge upon the Canadian coast. Working within three miles of shore, and thus definitely within their own territorial waters, from which Americans were excluded, the Canadians found heavy fishing.

In times of closed season in territorial waters, they were able to move only a short distance offshore and, competing directly with the Americans, could continue their fishing. That the fishermen did not choose to avail themselves of this obvious

opportunity, but rather held to their traditional week-end off, was apparently the only reason which enabled the American fleet to hold to its percentage lead in division of the Pink catch.

● The whole matter of the development of salmon fishing on the high seas sparked into focus of international attention during and after the salmon season of 1955.

Causes were several:
Japanese success in the North Pacific and its coincidental—and possibly concomitant—decline and failure of several fisheries along the North American coast, notably the

NOTES: † Unless otherwise noted, figures for Bluebacks represent Halves (basis of 8 doz.); for Chums, 1-lb. Tails. **Canned in plant of Chinook Packing Co.
Quarters (basis of 48 lbs to the case) are included with Halves as follows: (1) 1,027 cases Choice Chinooks, 1,101 Bluebacks, 5,470 Silvers, 4,978 Steelheads; (2) 196 cases Choice Chinooks, 468 Silvers, 473 Bluebacks, 642 Steelheads; (3) 342 cases Choice Chinooks, 339 Silvers, 68 Bluebacks, 17 Chums, 329 Steelheads; (4) 2,296 cases Silvers and 788 Bluebacks.

COMPANY	CANNERY LOCATION	CHINOOK				SILVER SIDE				STEELHEAD TROUT			
		1-lb. Flats & Ovals	Fancy 1-lb. Flats & Ovals (8 doz.)	1-lb. Tails	Choice, Standard & Pale 1-lb. Tails (48-lbs.)	1-lb. Tails	1-lb. Flats (48-lbs.)	1-lb. Tails	1-lb. Flats (48-lbs.)	1-lb. Flats (48-lbs.)	1-lb. Flats (48-lbs.)	1-lb. Flats (48-lbs.)	1-lb. Flats (48-lbs.)
1. Barney Packing Corporation	Astoria, Oregon	...	5,129	...	...	...	...	...	...	...	...	...	...
2. Chinook Packing Company	Chinook, Wash.	...	3,723	...	...	...	...	...	...	...	...	...	...
3. Columbia River Packers Assn.	Astoria, Oregon	...	31,762	...	...	...	...	...	...	...	...	...	...
4. Cowitz Fish Company	Kelso, Wash.	...	700	...	...	...	...	...	...	...	...	...	...
5. Keystone Packing Company	Ilwaco, Wash.	...	1,784	...	...	...	...	...	...	...	...	...	...
6. New England Fish Company	Chinook, Wash. (1)	...	4,427	...	...	...	...	...	...	...	...	...	...
7. Point Adams Packing Company	Hammond, Oregon	...	7,236	...	...	...	...	...	...	...	...	...	...
8. Portland Fish Company	Portland, Oregon	...	5,892	...	...	...	...	...	...	...	...	...	...
9. Union Fishermen's Co.-Op Pkg. Co.	Astoria, Oregon	...	7,922	...	...	...	...	...	...	...	...	...	...
TOTAL *		563	88,635	6,527	75,725	1,738	38,675	40,413	1,529	19,853	21,392	3,242	9,190

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SALMON
PACIFIC NORTHWEST

Fraser River Sockeye Salmon Catch by Cycles

British Columbia	1939—	568,943	1940—	937,062	1941—	2,116,723	1942—	5,047,599	British Columbia
Washington		552,179		709,661		1,560,482		2,921,805	Washington
TOTAL		1,121,122		1,646,703		3,677,205		7,969,404	TOTAL
British Columbia	1943—	349,011	1944—	1,003,829	1945—	969,444	1946—	4,239,622	British Columbia
Washington		242,822		436,182		716,685		3,551,761	Washington
TOTAL		591,404		1,440,011		1,686,129		7,791,383	TOTAL
British Columbia	1947—	354,000	1948—	751,812	1949—	1,020,799	1950—	894,469	British Columbia
Washington		90,117		1,089,060		1,058,117		1,220,935	Washington
TOTAL		444,117		1,840,872		2,078,916		2,115,404	TOTAL
British Columbia	1951—	1,288,162	1952—	1,154,383	1953—	1,992,343	1954—	4,722,463	British Columbia
Washington		1,136,791		1,113,475		2,032,437		4,806,258	Washington
TOTAL		2,424,953		2,267,858		4,024,780		9,528,721	TOTAL
British Columbia	1955*—	1,108,000	• Figures for 1955 are preliminary. Figures in this table, taken from reports of the International Pacific Salmon Fisheries Commission, represent the actual numbers of Sockeye known to have been caught in waters covered by the Fraser River Sockeye Salmon treaty. No reliable catch statistics for years prior to 1939.						
Washington		1,006,610							
TOTAL		2,114,610							

Red salmon of Bristol Bay and the Chum runs along the entire range of that species;

Research fishing by U.S. Fish and Wildlife Service vessels under auspices of the International North Pacific Fisheries Commission, which showed that salmon could be caught with gillnets hundreds of miles to sea off the coast of British Columbia and Alaska;

Promotional projects, particularly

that related to the activities of the vessel *Washington Star*, which sought to undertake off-shore salmon fishing on a commercial basis on the high seas beyond the jurisdiction of the several fishery administrations in Alaska, British Columbia and the Pacific States.

Gillnet fishing extension beyond its usual inshore and estuarial waters as fishermen found that new techniques and webbing of synthetic fibers could take salmon well to sea, and in some

instances considerably removed from the Strait of Juan de Fuca and the Columbia River.

● Rise of offshore fishing brought quick, and virtually unanimous, reaction from groups of fishermen, even from some of those who had participated.

This was evidently due to recognition by the fishermen that their success at sea presaged the development of fishing pressure in international waters which would inevitably (1)

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produce competition ruinous to the long-established element of the industry; (2) force the enactment of new administrative authority designed to cope with the new fishing pressures in international waters! (3) result in criticism because of the *apparent* economic waste—denied by some authorities—of taking salmon before they had reached their full size and maturity.

Resolutions calling upon governmental agencies to apply regulations which would prohibit the development of an off-shore salmon fishery—other than trolling—by Americans or Canadians were passed by a number of fishermen's organizations and one international meeting. Indications were that the federal authorities in Alaska and British Columbia were able and willing to act in the matter, and that probably Oregon and Washington had authority of state law to prevent landing of the product of such high seas fishery.

• Columbia River salmon operations for the year 1955 were highly encouraging so far as the spring and early summer runs of Chinook salmon were concerned; but equally discouraging with respect to fall Chinooks.

The summer Chinook run, which had shrunk from 3,330,000 lbs. in 1938 to only 200,000 lbs. in 1943—the all-time low—in 1955 proved the best since 1938, continuing an upward climb which has been manifest in recent years.

The rating of "best-since-1938" is an "official" one, and gives consideration to the *escapement* as well as to the *catch*; which, taken together, compose the *run*. Both the catch and

the escapement of the summer Chinooks were good, as compared with recent years, probably because of the stringent measures taken over the last decade to reverse the evident depletion of this highly valuable sector of the Columbia River salmon population.

In Fall Chinooks, which prior to 1950 composed the majority of the salmon packed on the Columbia, the record of 1955 is dark. For the fifth consecutive year this August run has failed to develop its former characteristics of volume and productivity. Cause is not known, but probably lies somewhere in the effect of power dams upon the fishery, in the flood-

SALMON

PACIFIC NORTHWEST

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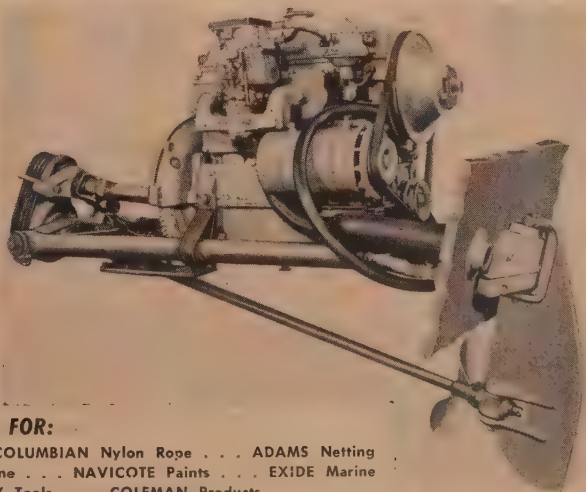
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COLUMBIA RIVER CHINOOK SALMON — SHAD ROE — WHITE MEAT ALBACORE TUNA



Power Block Pulls—Notable development of 1955 in the field of Pacific fishing was introduction of the Puretich power block, shown here. It serves to speed the fishing operation, increase production and reduce labor. Sockeye Commission administrators estimate that use of the block increases effectiveness of the vessel by 15%.

of the gillnet fishery of the Columbia itself.

Studies by tagging of troll-caught salmon northward along the coast all the way to Southeast Alaska show that a surprising percentage of these fish are native to the Columbia River, and predominantly are of the Fall-running type of Columbia River Chinook.

Thus it is believed that protective measures permitting the survival and escapement-to-spawn of larger number of Fall Chinooks in the Columbia River system will be reflected in improved ocean troll fishing, better sport fishing at sea and in the estuaries, larger eventual gillnet catches in the big stream itself, and the ultimate restoration of the productive late run which for a good many years has provided the major portion of the Columbia River catch.

● Pounds of salmon taken by Washington state fishermen during the year 1955 reached 63,600,000 lbs., according to calculations of the Washington State Department of Fisheries.

Pink salmon, with 31,900,000 lbs., was the principal single item in the total.

Chinook salmon, which weighed-in at 10,400,000 lbs., were in second place; with the Silver species third with 9,340,000 lbs.

ing of spawning areas, in raising the temperature of the stream, in upsetting food conditions, in other obscure effects, if not in direct effect through blocking the upstream migrating and destruction of the downstream migrants.

● Vigorous efforts are contemplated by the states of Oregon and Washington in an effort to restore the Columbia River Fall Chinook run, not only because of its extreme importance in the biology of that stream but also due to its importance in the economy of the ocean troll fishery as well as

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SIZE	FEET PER POUND	BREAK
2	8300	20
3	5790	30
4	4800	35
5	3800	40
6	3120	45
7	2670	50
8	2145	55
9	1720	60
10	1500	65
11	1100	70
12	790	75
14	680	80
16	575	85
18	523	90
20	340	95
22	293	100
24	270	105

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MOODUS, CONNECTICUT

Fraser River-Puget Sound Sockeye Pack, by Cycles

British Columbia	1895—	395,984	1896—	356,984	1897—	860,459	1898—	256,101	British Columbia
Washington		65,143		72,979		312,048		252,000	Washington
TOTAL		461,127		429,963		1,172,507		508,101	TOTAL
British Columbia	1899—	480,485	1900—	229,800	1901—	928,669	1902—	293,477	British Columbia
Washington		499,646		228,704		1,105,096		339,556	Washington
TOTAL		980,131		458,504		2,033,765		633,033	TOTAL
British Columbia	1903—	204,809	1904—	72,688	1905—	837,489	1906—	183,007	British Columbia
Washington		167,211		123,419		837,122		182,241	Washington
TOTAL		372,020		196,107		1,674,611		365,248	TOTAL
British Columbia	1907—	59,815	1908—	74,574	1909—	585,435	1910—	150,432	British Columbia
Washington		96,974		170,951		1,097,904		248,014	Washington
TOTAL		156,789		245,525		1,683,339		398,446	TOTAL
British Columbia	1911—	58,487	1912—	123,879	1913—	719,796	1914—	198,183	British Columbia
Washington		127,761		184,680		1,673,099		335,230	Washington
TOTAL		186,248		308,559		2,392,895		533,413	TOTAL
British Columbia	1915—	91,130	1916—	32,146	1917—	148,164	1918—	19,697	British Columbia
Washington		64,584		84,637		411,538		50,723	Washington
TOTAL		155,714		116,783		559,702		70,420	TOTAL
British Columbia	1919—	38,854	1920—	48,399	1921—	39,631	1922—	51,832	British Columbia
Washington		64,346		62,654		102,967		48,566	Washington
TOTAL		103,200		111,053		142,598		100,398	TOTAL
British Columbia	1923—	31,855	1924—	39,743	1925—	35,385	1926—	85,689	British Columbia
Washington		47,402		69,369		112,023		44,673	Washington
TOTAL		79,057		109,112		147,408		130,362	TOTAL
British Columbia	1927—	61,393	1928—	29,299	1929—	61,569	1930—	103,692	British Columbia
Washington		97,594		61,044		111,898		352,194	Washington
TOTAL		158,987		90,343		173,467		455,886	TOTAL
British Columbia	1931—	40,947	1932—	65,769	1933—	52,465	1934—	139,238	British Columbia
Washington		87,211		81,188		126,604		352,579	Washington
TOTAL		128,158		146,957		179,069		491,817	TOTAL
British Columbia	1935—	62,822	1936—	184,854	1937—	100,272	1938—	186,794	British Columbia
Washington		54,677		59,505		60,259		134,641	Washington
TOTAL		117,499		244,359		160,531		321,435	TOTAL
British Columbia	1939—	54,296	1940—	99,009	1941—	171,290	1942—	446,371	British Columbia
Washington		43,511		59,354		110,605		263,458	Washington
TOTAL		97,807		158,363		281,895		709,829	TOTAL
British Columbia	1943—	31,973½	1944—	88,515	1945—	79,781½	1946—	331,292	British Columbia
Washington		19,179		37,508		53,054½		280,018	Washington
TOTAL		51,152½		126,024		132,836		611,310	TOTAL
British Columbia	1947—	27,857	1948—	61,650	1949—	80,629	1950—	81,510	British Columbia
Washington		7,516		90,441		80,547		116,458	Washington
TOTAL		35,373		152,091		161,176		197,968	TOTAL
British Columbia	1951—	134,400	1952—	115,814	1953—	176,097	1954—	486,805	British Columbia
Washington		118,151		114,638		178,323		501,496	Washington
TOTAL		252,551		230,452		354,420		988,301	TOTAL
British Columbia	1955*	94,500							British Columbia
Washington		86,035							Washington
TOTAL		180,535							TOTAL

* Figures for 1955 are approximate. Statistics represent 48-lb. cases of Sockeyes caught in the Fraser River district of British Columbia and adjacent waters of the state of Washington, whether canned in those districts or elsewhere - and not including other Sockeye canned in those districts. This accounts in large part for the discrepancy between these statistics and those appearing elsewhere in this issue.

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OSCAR BERGSETH of Seattle, president of the Alaska Salmon Industry, Inc.; director and general superintendent, New England Fish Co.

1955 -UNITED STATES TUNA PACK-1955

REGION	(Cases)				
	Albacore	Lightmeat	Standard Cases Total True Tuna	Bonito and Yellowtail	GRAND TOTAL
California					
San Diego	484,645	1,690,679	2,175,324	1,243	2,176,567
San Pedro*	1,351,131	4,713,406	6,064,537	3,465	6,068,002
Total California	1,835,776	6,404,085	8,239,861	4,708	8,244,569
Hawaii, Samoa, Washington and Oregon combined lightmeat tuna**	...	733,376**	733,376	...	733,376
Oregon	450,081	...	450,081	...	450,081
Washington	56,796	...	56,796	...	56,796
Total Pacific outside California	506,877	733,376**	1,240,253	...	1,240,253
Total Pacific Coast	2,342,653	7,137,461	9,480,114	4,708	9,484,822
Total Atlantic Coast	...	248,000	248,000	...	248,000†
GRAND TOTAL U.S. TUNA	2,342,653	7,385,461	9,728,114	4,708	9,732,822

*Tuna canned in San Francisco and Monterey in 1955 is included with Southern California districts.

**Lightmeat tuna total for Hawaii, Samoa, Washington and Oregon includes some quantities of Albacore.

#Oregon Albacore includes 1,040 cases canned in Northern California.

†Atlantic Coast figures include tuna canned in Puerto Rico.

**Total Atlantic production for 1955 is estimated from official sources.

Cut-back on the order of 1.5 million cases was applied to American tuna canning in 1955 as the industry's answer to the tendency toward softness which developed after 13 consecutive years of ever-rising output.

Reduction in business came entirely at the expense of the domestic producers, as imports both of frozen and canned tuna showed moderate increase from 1954 levels.

● Brakes were applied to tuna operations in the United States in 1955 for the first time in 13 consecutive years. The softening manifest in market demand was met with a cut-back of about 1.15 million cases as compared with the year before. This was the first time since 1942 that the American pack of tuna has not registered an annual increase.

Despite the reduced pack, as compared with the year before, American tuna canning in 1955—amounting to 9,732,822 cases—was larger than in any year prior to 1954.

● Burden of the reduction resulting from surfeited demand was borne wholly by the American producers, as import figures for 1955 indicate that there was a moderate increase in shipments of foreign tuna—both canned and frozen—received in this country during the year.

● For California's producers of tuna 1955 was marked by the sharp revision in price from \$330 to \$270 for Yellowfin, with corresponding cuts for other species. Again, by tuna bait boats and year-round tuna purse

seiners, 1955 would be remembered because for weeks, and sometimes months, boats were held in port, waiting for cannery orders to unload.

For eight weeks tuna canning in the San Pedro area San Diego plants stopped while the cannery workers (AFL) struck during September and October for higher hourly wages and welfare benefits.

Fishermen and cannery workers all through 1955 fought a losing battle to secure a quota on imports of (1) frozen tuna and (2) tuna canned in brine. The tariff on tuna-in-oil was reduced

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NEW Chicken of the Sea Tuna Dinner

Tasty tuna patty, fresh-frozen garden peas, savory mashed potatoes topped with generous butter pat. A complete dinner in its own three-section aluminum plate. A real hit wherever sold... a real profit-maker wherever sold!

Remember, you NET MORE
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Van Camp Sea Food Company, Inc.
Terminal Island, California

1955 -CALIFORNIA TUNA PACK BY MONTHS-1955

(Cases)														Total Cases 'As they run'	Total Cases Basis 48-lbs
	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.			
Albacore - Whitemeat															
Solid Pack	66,776	106,559	97,444	101,721	71,956	42,211	224,764	278,735	50,944	9,729	115,597	103,680	1,270,116		
Standard Pack	...	...	21,280	878	879	...	2,385	1,393	340	163	4,642	630	32,590		
Chunk Pack	29,245	10,475	14,940	27,715	22,383	4,813	40,015	47,406	1,137	1,342	27,858	18,810	246,139		
Grated & Flakes	21,975	32,655	25,133	21,953	22,891	15,722	44,700	59,153	18,432	1,380	28,630	16,050	308,674		
Dark & Light	32	...	...	...	542	...	1,345	1,107	...	48	942	569	5,107		
Tonno	...	...	...	...	...	...	...	...	...	...	...	...	...		
Unspecified	3,299	4,450	4,090	1,084	3,376	...	14,061	5,920	76	...	1,378	2,191	39,925		
Total - Whitemeat	121,327	154,139	162,887	153,893	122,007	62,746	327,270	393,714	70,929	12,662	179,047	141,930	1,902,551		1,835,776
Lightmeat -															
Solid Pack	57,214	49,678	81,744	113,079	111,442	193,823	132,036	133,596	37,317	20,071	123,137	167,174	1,220,311		
Standard Pack	5,444	...	955	5,908	3,784	4,735	8,449	13,676	17,389	7,089	7,669	6,303	81,401		
Chunk Pack	264,496	144,631	285,424	344,797	396,687	584,462	335,818	630,251	92,398	71,686	444,322	501,525	4,096,497		
Grated & Flakes	65,303	39,964	43,636	83,295	81,780	126,298	81,586	80,573	22,811	17,069	81,242	110,450	834,007		
Dark & Light	349	1,929	2,824	2,723	4,510	6,664	1,318	2,142	768	...	1,715	...	24,942		
Tonno	20,195	10,761	12,341	20,677	3,678	13,087	8,727	19,964	...	...	31,532	38,816	179,778		
Unspecified	13,831	7,767	18,129	6,551	3,104	6,186	5,825	9,610	...	...	13,217	12,605	96,825		
Total - Lightmeat	426,832	254,730	445,053	577,030	604,985	935,255	573,759	889,812	170,683	115,915	702,834	836,873	6,533,761		6,404,085
Bonito & Yellowtail -															
Solid Pack	...	...	...	...	...	...	...	...	...	...	...	...	...		
Standard Pack	272	...	...	...	...	...	...	...	...	...	24	...	296		
Chunk Pack	...	...	...	...	...	...	...	...	...	...	...	...	...		
Grated & Flakes	2,510	789	119	...	...	61	10	19	...	...	655	120	4,283		
Unspecified	...	...	...	...	...	...	...	...	...	...	...	...	...		
Total - Tuna-like	2,782	789	119	...	...	61	10	19	...	...	679	120	4,579		4,708
GRAND TOTAL	550,941	409,658	608,059	730,923	726,992	998,062	901,039	1,283,545	241,612	128,577	882,560	978,923	8,440,891		8,244,569

from 45% to 35% ad valorem but imports of raw tuna, principally from Japan, ran far ahead of the first 10 months of 1954. Albacore and Yellowfin were headlines in the tuna import statistics.

Fishermen organizations in late 1955 were working together in an effort to secure congressional legislation in 1956 that would put fishing on an equal footing with agriculture. Quoting Dr. W. M. Chapman, director of research for the American Tunaboat Association, San Diego:

"We want the same treatment for fishermen that the farmer gets."

The year 1955 began for the bait boats without an agreed-upon pre-sailing price. Then, because of extended delays in unloading of tuna by canneries in San Pedro and San Diego, members of the American Tunaboat Association explored the possibility of securing equipment to can tuna from the production of member boats. This plan went no further than the initial stage.

As 1955 headed into June, there

was at least 13,000 tons of tuna aboard clippers and purse seiners, waiting as long as two months to be unloaded. Further complications for the high seas tuna fishery came in the form of seizures and fining of American fishing vessels by South American countries. The year ended, however, on a happy note, internationally speaking—for no more Southern California boats were seized and fined as the year reached its close.

Concentrating on reducing some of the tensions in tuna, the California

1955 -IMPORTS OF CANNED TUNA- 1955

Pounds													
Countries	Oct. 1954	Nov. '54	Dec. '54	Jan. '55	Feb.	March	April	May	June	July	August	Sept.	Total
JAPAN - TOTAL	2,335,000	2,077,000	2,017,000	2,424,000	2,084,000	2,102,000	2,121,000	1,907,000	3,049,000	2,739,000	3,309,000	3,164,000	29,328,000
Albacore: Oil	...	...	33,000	55,000	14,000	98,000	27,000	50,000	30,000	6,000	4,000	35,000	352,000
Brine	905,000	505,000	592,000	821,000	733,000	879,000	948,000	753,000	1,083,000	689,000	1,009,000	1,194,000	10,111,000
Other Oil	...	4,000	77,000	43,000	7,000	69,000	22,000	6,000	15,000	15,000	...	25,000	283,000
Tuna: Brine	1,430,000	1,568,000	1,315,000	1,505,000	1,330,000	1,056,000	1,124,000	1,098,000	1,921,000	2,029,000	2,296,000	1,910,000	18,582,000
PORTUGAL - TOTAL	56,000	68,000	59,000	57,000	70,000	41,000	134,000	35,000	91,000	29,000	39,000	114,000	793,000
Albacore: Oil	...	...	4,000	...	...	...	...	2,000	...	...	...	...	6,000
Brine	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Oil	...	4,000	...	7,000	10,000	3,000	8,000	3,000	7,000	5,000	4,000	4,000	55,000
Tuna: Brine	56,000	64,000	55,000	50,000	60,000	38,000	126,000	30,000	84,000	24,000	35,000	110,000	732,000
PERU - TOTAL	20,000	...	20,000	9,000	3,000	20,000	8,000	18,000	32,000	...	6,000	52,000	188,000
Albacore: Oil	...	...	20,000	...	3,000	...	...	...	3,000	...	...	...	26,000
Brine	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Oil	2,000	...	...	...	...	8,000	6,000	...	5,000	...	...	...	21,000
Tuna: Brine	18,000	...	...	9,000	...	12,000	2,000	18,000	24,000	...	6,000	52,000	141,000
ANGOLA - TOTAL	...	3,000	...	8,000	12,000	...	54,000	15,000	...	28,000	28,000	24,000	172,000
Albacore: Oil	...	...	...	...	...	...	...	...	...	...	...	...	...
Brine	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Oil	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuna: Brine	...	3,000	...	8,000	12,000	...	54,000	15,000	...	28,000	28,000	24,000	172,000
OTHERS - TOTAL	49,000	292,000	154,000	236,000	88,000	184,000	128,000	8,000	56,000	207,000	70,000	283,000	1,753,000
Albacore: Oil	...	7,000	...	15,000	2,000	3,000	7,000	4,000	2,000	5,000	1,000	8,000	54,000
Brine	42,000	243,000	45,000	103,000	48,000	84,000	27,000	4,000	22,000	130,000	7,000	184,000	939,000
Other Oil	7,000	9,000	32,000	27,000	...	2,000	...	...	5,000	3,000	...	...	85,000
Tuna: Brine	...	33,000	77,000	91,000	36,000	95,000	94,000	...	27,000	69,000	62,000	91,000	675,000

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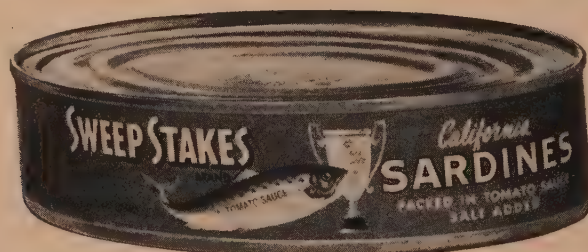
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350 SARDINE STREET, TERMINAL ISLAND, CALIFORNIA

CALIFORNIA IMPORTS OF FROZEN TUNA BY MONTHS

SPECIES	Tons												Total
	Nov.'54	Dec.'54	Jan.'55	Feb.	March	April	May	June	July	August	Sept.	Oct.	
Tuna and Tunalike:	Tons												
Albacore			2,702	2,679	2,944	2,959	2,569	1,058	3,187	3,280	2,111	235	23,724
Bluefin			...	...	...	90	...	...	...	...	...	...	90
Skipjack			440	835	2,730	448	578	1,502	1,245	484	...	869	9,131
Yellowfin			984	1,057	2,412	2,306	2,306	2,781	2,462	2,410	885	300	17,698
Unclassified			...	...	...	...	...	...	...	586	154	...	740
TOTAL	*	*	4,126	4,571	7,755	5,909	5,453	5,341	6,914	6,760	3,150	1,404	51,383
1953-54													
All Tuna and Tunalike	*	*	2,019	2,641	2,962	3,672	4,538	5,336	5,184	6,448	2,822	2,092	37,714

* Not available.

Fish Cannery Association in mid-year began customs court action charging that canned tuna was being imported into the United States at a tariff rate below the legal duty. As 1955 ended, however, no definitive development had come in this action.

About the time that the CFCA filed its suit, wives of tuna fishermen and officials of industries associated with tuna fishing banded together to develop a campaign to establish a quota on tuna imports. Thinking of the fishermen was directed toward a goal

of establishing a basic government policy that commercial food fisheries are in the public interest.

• Imports of frozen tuna into California fell off considerably during the fall months of 1955, as compared to

SAN PEDRO CANNED TUNA BY GRADES

YEAR & TYPE	Solid	Standard	Chunks	Grated & Flakes	Dark & Light	Tonno	Misc.	TOTAL
1951								
Lightmeat	497,942	113,731	666,590	1,701,833	48,690	103,817	11,260	3,143,863
Whitemeat	264,789	72,667	99,723	141,941	610	418	229	580,377
Yellowtail & Bonito	.....	22,926	.....	66,153	.....	.....	.....	89,079
TOTAL	762,731	209,324	766,313	1,909,927	49,300	104,235	11,489	3,813,319
1952								
Lightmeat	820,745	89,832	2,198,446	973,275	54,830	83,083	94,883	4,315,094
Whitemeat	505,833	12,114	302,238	178,827	6,276	1,738	24,375	1,031,401
Yellowtail & Bonito	.....	53,475	7,606	132,457	.....	.....	.....	193,538
TOTAL	1,326,578	155,421	2,508,290	1,284,559	61,106	84,821	119,258	5,540,033
1953								
Lightmeat	580,967	128,009	2,187,041	745,753	29,961	124,626	136,270	3,932,627
Whitemeat	699,469	18,379	326,908	217,422	10,546	164	40,211	1,313,099
Yellowtail & Bonito	.....	10,915	16,865	75,941	.....	.....	.....	103,721
TOTAL	1,280,436	157,303	2,530,814	1,039,116	40,507	124,790	176,481	5,349,447
1954								
Lightmeat	595,102	130,717	2,982,897	665,484	38,560	115,684	183,970	4,712,414
Whitemeat	691,162	8,648	272,537	203,845	7,687	327	22,458	1,206,664
Yellowtail & Bonito	.....	8,456	812	17,858	.....	.....	.....	27,126
TOTAL	1,286,264	147,821	3,256,246	887,187	46,247	116,011	206,428	5,946,204

SAN PEDRO CANNED TUNA

YEAR	(Cases)								
	Yellowfin	Bluefin	Skipjack	Albacore	Tonno	Tuna Flakes	Yellowtail	Bonito	TOTAL
1926	122,968	67,525	189,581	43,660	90,689	11,786	8,374	39,336	573,919
1927	185,423	40,363	155,755	105,598	197,275	7,816	8,827	17,833	718,890
1928	323,813	85,994	64,061	99,093	106,038	7,577	902	13,857	701,335
1929	199,292	67,091	128,436	130,212	88,454	7,707	5,845	44,098	671,135
1930	262,278	302,660	82,282	143,748	57,110	11,508	16,505	56,544	932,635
1931	182,115	46,462	166,091	144,796	35,514	12,850	1,292	35,997	625,117
1932	275,263	8,510	101,626	52,215	42,247	11,517	2,447	31,901	525,726
1933	258,982	7,580	74,728	49,391	41,200	10,907	1,389	17,892	462,069
1934	317,846	325,350	71,350	82,182	55,163	22,402	3,716	35,245	913,254
1935	306,202	413,630	88,746	107,501	81,660	33,909	17,123	91,080	1,139,851
1936	343,234	311,987	184,930	53,849	57,797	9,906	17,069	68,335	1,047,107
1937	416,611	188,432	276,165	83,123	136,612	34,534	3,352	85,518	1,224,347
1938	273,365	273,358	151,081	265,034	67,404	47,092	27,440	81,830	1,196,604
1939	578,727	191,456	212,042	281,666	70,022	41,104	11,739	139,502	1,526,258
1940	536,391	267,343	306,447	122,484	124,094	85,459	40,861	65,364	1,548,443
1941	308,886	136,333	109,563	73,024	33,530	40,545	26,241	135,594	863,716
1942	214,391	250,685	128,870	128,670	23,479	39,880	16,427	18,115	820,627
1943	303,881	162,844	88,203	187,052	17,239	120,548	67,780	28,815	976,362
1944	341,687	357,531	105,863	125,632	15,365	234,639	16,611	4,206	1,201,534
1945	460,982	275,116	89,279	148,286	16,198	452,292	3,262	31,366	1,476,781
1946	663,814	304,248	202,729	141,629	....	558,026	15,080	73,509	1,959,035
1947	765,426	342,309	209,281	104,726	7,403	417,644	87,934	220,606	2,155,329
1948	969,732	94,190	200,693	290,811	23,009	477,769	120,257	150,147	2,326,608
1949	614,847	38,142	157,373	289,063	78,821	1,330,358	31,072	18,123	2,557,799
1950	742,815	14,786	266,809	586,683	202,368	2,456,705	10,838	3,757	4,284,761
1951	...	...	1,289,523*	437,408	104,235	1,959,227	...	22,926**	3,813,319
1952	...	...	3,203,906*	844,821	84,821	1,345,665	...	61,061**	5,540,033
1953	...	...	2,922,287	1,044,756	120,625	1,043,893	51,092	52,629	5,235,282
1954	...	...	725,729	699,810	116,011	4,377,438	9,949	17,177	5,946,114

* Yellowfin, Bluefin and Skipjack not given separately.

** Yellowtail and Bonito not given separately.

South Pacific Canning Company

Long Beach, California

The Halfhill Company, Inc.

Los Angeles, California

National Packing Company

Ponce, Puerto Rico

M. D. MARSH
General Manager

T. A. HALFHILL
Sales Manager



Packers of

TUNA

"Sea Gold" Sardines, Mackerel, Clams
and

Pet Food
Fish Oil and Meal



General Offices: 1300 W. 7th St., Long Beach, California HEMlock 7-1271

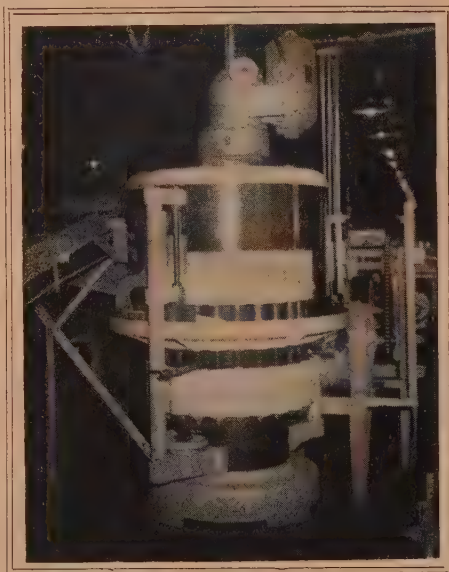
E. H. CARRUTHERS COMPANY

Engineers—Designers

To the Food Packing Industry

**Tuna Packing
Mechanized by
Our Pak-Shaper**

Pak-Shaper's Introduction in 1949 developed in tuna canning a greater measure of mechanization than had come about in 30 years of previous growth. . . . Subsequent experience has proved its value to the industry. A large percentage of major tuna operators presently employ the Pak-Shaper.



THE PAK-FORMER

**The Pak-Former
Now Available to the
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This machine has been developed exclusively for Chunk and Grated Style Pack. A variable speed drive permits filling speed adjustments of between 140 and 250 cans per minute. Available to the industry under similar terms as the Pak-Shaper.

E. H. CARRUTHERS CO. • P. O. BOX 1332 • WARRENTON, OREGON

CALIFORNIA PACK OF CANNED TUNA AND RELATED FISHES

YEAR	SAN PEDRO DISTRICT										SAN DIEGO DISTRICT										San Fran- cisco & Monterey	GRAND TOTAL	YEAR
	Yellow- fin	Bluefin	Skippack	Albacore	Flakes	Tonno	Tunalike (Bonito & Yellowtail)	TOTAL	Yellow- fin	Bluefin	Skippack	Albacore	Flakes	Tonno	Tunalike (Bonito & Yellowtail)	TOTAL							
1926	122,968	67,525	189,581	43,660	11,786	90,689	47,710	573,919	96,363	2,758	85,389	14,555	4,162	40,864	15,416	259,507	.....	833,426	1,927				
1927	158,423	40,363	155,755	105,398	7,816	197,275	26,660	718,890	200,635	9,645	226,420	20,481	435	10,221	20,147	487,984	.....	1,206,874	1928				
1928	323,813	85,994	404,001	99,093	7,577	106,038	14,759	701,335	287,770	46,348	130,430	658	9,156	11,783	9,798	495,943	.....	1,428,865	1929				
1929	139,232	67,091	128,436	130,212	7,107	88,454	49,943	671,135	458,687	22,637	218,696	2,446	10,906	31,351	13,027	757,730	.....	1,197,278	1930				
1930	262,278	302,650	82,282	143,748	11,508	57,110	73,049	932,635	739,616	6,944	185,848	1,783	18,053	17,875	17,635	997,754	.....	1,920,389	1931				
1931	182,115	46,462	166,091	144,796	12,850	35,514	37,289	625,117	431,229	.....	112,307	177	6,591	3,006	554,016	.....	1,179,133	1932					
1932	275,263	8,510	101,626	52,215	11,517	42,247	34,348	525,726	403,050	177	203,381	.....	4,774	10,881	50,797	622,283	.....	1,161,151	1933				
1933	258,962	7,580	74,728	49,391	10,907	41,200	19,281	462,069	678,810	.....	198,313	.....	2,183	50,797	50,797	930,104	.....	1,392,173	1934				
1934	317,846	325,350	71,350	82,182	22,402	51,163	38,961	913,254	780,066	6,683	125,748	4,648	8,100	545	23,409	1,014,056	.....	1,967,310	1935				
1935	306,202	413,630	88,746	107,501	33,909	81,660	108,203	1,139,851	948,270	24,871	249,747	.....	.....	740	131,802	1,336,875	.....	2,476,726	1936				
1936	343,234	413,630	184,930	53,849	34,534	57,797	85,404	1,041,107	1,074,811	22,390	295,330	4,638	14,867	1,125	88,182	1,753,987	.....	2,587,182	1937				
1937	416,611	188,432	276,165	83,123	47,002	67,044	119,270	1,196,604	1,010,814	1,165,666	271,010	8,036	15,904	1,125	88,182	1,402,128	.....	3,018,314	1938				
1938	578,727	191,456	215,081	265,034	47,002	67,044	119,270	1,196,604	1,010,814	1,165,666	271,010	8,036	15,904	1,125	88,182	1,402,128	.....	3,018,314	1939				
1939	536,391	267,343	306,447	73,024	40,545	33,550	161,835	863,716	545,517	28,413	590,594	104,515	130,004	308	144,331	1,453,336	.....	2,530,129	1940				
1940	214,391	250,685	128,980	128,670	40,545	33,550	161,835	863,716	545,517	28,413	590,594	104,515	130,004	308	144,331	1,453,336	.....	2,530,129	1941				
1941	303,881	162,844	188,203	187,052	120,548	17,239	96,595	976,362	392,114	12,021	294,994	227,347	381,967	.....	12,288	1,350,711	11,342	2,308,415	1942				
1942	341,687	357,531	105,863	125,632	23,639	15,385	20,817	1,201,534	488,796	22,742	438,885	323,622	268,767	.....	7,531	1,976,583	3,078	3,456,947	1943				
1943	460,982	275,116	141,829	104,286	402,262	16,138	34,828	88,389	1,959,038	28,753	445,560	233,622	268,767	.....	63,762	2,580,021	6,341	3,455,397	1944				
1944	765,426	342,309	209,281	104,726	417,769	22,663	270,404	2,328,608	2,364,819	1,991	759,695	145,300	323,511	26,339	68,927	3,140,911	51,258	5,387,498	1945				
1945	969,732	342,309	209,281	104,726	417,769	22,663	270,404	2,328,608	2,364,819	1,991	759,695	145,300	323,511	26,339	68,927	3,140,911	51,258	5,387,498	1946				
1946	752,515	14,786	266,809	586,683	2,456,705	104,235	77,229	3,801,469	3,574,469	.....	.....	509,385	453,840	53,391	69,886	2,865,248	.....	8,624,109	1947				
1947	752,515	14,786	266,809	586,683	2,456,705	104,235	77,229	3,801,469	3,574,469	.....	.....	509,385	453,840	53,391	69,886	2,865,248	.....	8,624,109	1948				
1948	611,973	.....	.....	337,456	2,670,876	86,948	196,453	5,402,608	5,008,476	.....	.....	509,385	453,840	53,391	69,886	2,865,248	.....	8,624,109	1949				
1949	3,080,057	.....	.....	814,198	1,179,273	122,091	1,097,602	5,402,608	5,008,476	.....	.....	509,385	453,840	53,391	69,886	2,865,248	.....	8,624,109	1950				
1950	3,009,258	.....	.....	1,097,602	1,179,273	122,091	1,097,602	5,402,608	5,008,476	.....	.....	509,385	453,840	53,391	69,886	2,865,248	.....	8,624,109	1951				
1951	723,729	.....	.....	699,810	4,377,438	116,011	3,455	6,068,002	1,690,879	.....	.....	484,645	.....	1,243	.....	2,176,567	.....	8,244,569	1952				
1952	4,113,406	.....	.....	1,391,131	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1953				

* Segregation of lightmeat tuna pack as to species, and amounts of chunks, flakes and tonno not available at present time. Accordingly, all lightmeat tuna and special packs made from lightmeat have been shown under Yellowfin. Albacore totals also include chunks, flakes and tonno packed from this species. Quantities given are in standard cases of 48 halves.

SAN DIEGO CANNED TUNA BY GRADES

YEAR & TYPE	Solid	Standard	Chunks	Grated & Flakes	Dark & Light	Tonno	Misc.	TOTAL
1951	Lightmeat 872,560 Whitemeat 180,887 Yellowtail & Bonito 270	101,909 88,887 270	1,444,755 100,926	530,229 39,119 12,175	2,678	56,042	4,991	3,015,164 409,819 12,445
1952	Lightmeat 475,181 Whitemeat 309,319 Yellowtail & Bonito 80	26,455 80	902,647 225,255 3,035	344,532 109,774 31,117	2,678	56,042	4,991	1,786,692 652,056 34,232
1953	Lightmeat 492,617 Whitemeat 351,945 Yellowtail & Bonito 68	56,386 68	1,123,132 142,192 14,114	368,405 141,440 55,684	3,810 557	44,134	2,858	2,091,342 647,009 69,866
1954	Lightmeat 763,880 Whitemeat 249,972 Yellowtail & Bonito 33	48,645 3,346	1,614,929 84,809 1,201	384,897 58,563 43,829	4,206	64,155	142	2,880,712 393,486 48,409
TOTAL	1,013,885	51,991	1,700,939	487,289	4,206	64,155	142	3,322,807

1954, and there was an indication that the Japanese industry was prepared to apply voluntary control on exports of frozen tuna to the United States.

Summarizing the California tuna canners' position in regard to imports of tuna-in-brine, J. G. Scharer, vice president of Star-Kist Foods Inc.: "First, the Japanese invaded our institutional market, our hospitals, hotels, restaurants, etc., where brand consciousness on the part of the consumer is inconsequential. It is difficult accurately to measure the extent of injury suffered by the domestic packers, but suffice it to say that their sale of this type of pack has dropped off to nothing."

Flavorful Tuna from *Hawaii*



**FINEST QUALITY
EXPERTLY PACKED**

Hawaiian Tuna Packers, Ltd.

- Sales Office 215 Market Street, San Francisco
- Main Office and Cannery, Honolulu, Hawaii, U.S.A.

Hawaii, Samoa, Oregon and Washington Lightmeat Tuna Pack

Year	Fancy and Standard			Chunks, Flakes, Grated			Grand Total	Year
	Halves 48	Quarters 96	Total Cases	Halves 48	Quarters 96	Total Cases		
1955	404,540	...	404,540	328,836	...	328,836	733,376	1955
1954	173,141	1,852	174,993	504,943	...	504,943	679,936	1954
1953	130,825	6,226	137,051	322,603	4,489	327,092	464,143	1953
1952	184,571	9,750	194,321	163,466	7,585	171,051	365,372	1952
1951	496,408	13,137	509,545	...	**	**	509,545	1951
1950	332,871	9,256	342,127	163,899	4,170	168,069	510,196	1950
1949	...	...	129,848*	...	...	73,978*	202,826*	1949
1948	...	...	93,335	...	...	56,738	150,073	1948
1947	...	...	60,793	...	...	33,189	93,982	1947

NOTE: - Quarters are counted on the basis of 8 dozen per case for statistical purposes, although normally packed 48 to the case.

*Figures for 1949 and years previous are for lightmeat tuna production in Oregon and Washington only. Production for Hawaii is not included in the records for these previous years. **Included with "Fancy and Standard". †Data for 1952 and 1953 as reported to "Pacific Fisherman" by producers. Total probably includes some Albacore, as there is some discrepancy from official figures of the U.S.F.

● In 1955 the tuna bait fleet lost *La Belle*, *Ocean Pride*, *Marilyn Rose*, *Northern Light*, *Genevieve H*, *American Clipper*, *Sea Lark*, *Kathryn*, the freezership *Toni B*, and the tuna purse seiner *Western Pacific*. On the other hand, the clipper fleet added five

new steel boats in 1955 (two of which were launched in 1954, but delivered their first tuna in 1955): *Cabrillo*, *Dominator*, *Independence*, *Concho* and *Missouri*, all built by National Steel and Shipbuilding Corp., San Diego. The latter three are fishing

under National Marine Terminal and delivering to Westgate - California Tuna Packing Company.

Charles Carry, executive director of the California Fish Cannery Association, in December stated that, despite the fleet tieups, cannery workers'

1955 -IMPORTS OF FRESH AND FROZEN TUNA - 1955

Pounds													
	Oct.' 54	Nov.' 54	Dec.' 54	Jan.' 55	Feb.	March	April	May	June	July	August	Sept.	TOTAL
JAPAN -Total	7,254,000	2,166,000	5,902,000	7,084,000	7,944,000	8,753,000	10,570,000	11,681,000	7,525,000	19,722,000	15,534,000	6,765,000	110,900,000
Albacore:													
Fresh or Froz.	2,936,000	1,087,000	3,917,000	4,647,000	6,369,000	6,747,000	6,500,000	5,793,000	3,520,000	14,335,000	8,416,000	3,868,000	68,135,000
Other Tuna:													
Fresh or Froz.	4,318,000	1,079,000	1,985,000	2,437,000	1,575,000	2,006,000	4,070,000	5,888,000	4,005,000	5,387,000	7,118,000	2,897,000	42,765,000
PERU-TOTAL	...	1,438,000	1,925,000	764,000	3,011,000	5,115,000	3,287,000	2,118,000	1,669,000	2,950,000	280,000	...	22,557,000
Albacore:													
Fresh or Froz.	...	...	...	...	...	...	...	...	...	...	...	...	.....
Other Tuna:													
Fresh or Froz.	...	1,438,000	1,925,000	764,000	3,011,000	5,115,000	3,287,000	2,118,000	1,669,000	2,950,000	280,000	...	22,557,000
COSTA RICA													
Total:	...	...	...	...	...	...	200,000	206,000	...	...	...	...	406,000
Albacore, F. or F.	...	...	...	...	...	...	...	...	...	...	...	...	.....
Other Tuna:													
Fresh or Froz.	...	...	...	...	...	...	200,000	206,000	...	...	...	...	406,000
ECUADOR													
Total:	...	...	437,000	...	...	218,000	612,000	308,000	20,000	...	1,241,000	443,000	3,279,000
Albacore, F. or F.	...	...	...	...	...	...	...	...	...	...	...	...	.....
Other Tuna:													
Fresh or Froz.	...	...	437,000	...	...	218,000	612,000	308,000	20,000	...	1,241,000	443,000	3,279,000
OTHERS-Total	413,000	150,000	407,000	308,000	114,000	2,144,000	322,000	399,000	748,000	296,000	59,000	32,000	5,392,000
Albacore, F. or F.	3,000	...	...	...	...	...	...	388,000	...	11,000	29,000	3,000	434,000
Other Tuna:													
Fresh or Froz.	410,000	150,000	407,000	308,000	114,000	2,144,000	322,000	11,000	748,000	285,000	30,000	29,000	4,958,000

Tuna Prices Per Ton Paid Fishermen

YEAR	Albacore	Yellowfin	Bluefin	Skipjack	YEAR	Albacore	Yellowfin	Bluefin	Skipjack
1917	\$30	\$50	\$45	\$40	1937	215	120	110	100
1918	125	90	80	40	1938	215-130	120	110	100
1919	200	90	80	40	1939	125	110	100	90
1920	300	90	80	40	1940	140	110	110	100
1921	145	80	80	60	1941	140	110-130	110-120	100-110
1922	250	100	80	60	1942	300-400	190	180	170
1923	300	80	75	60	1943	325	200	190	180
1924	360	80	80	60	1944	325-390	200	190	180
1925	200	80	80	60	1945	390	200	190	180
1926	175	110	110	75-80	1946	390-440	200-280	190-270	180-260
1927	Nominal	110	90	75	1947	410-600	310-340	300	290-320
1928	\$200 up	120	90	75	1948	550-740-425	340	330	320
1929	300	120	110	70-80	1949	400-350	340-310	330-300	320-290
1930	200	120	110	90	1950	400	310	300	290
1931	200	120-100	90	90-80	1951	400-250-300	310	300	290
1932	200	80	75	70	1952	350-400	320	310	280
1933	200	100	90	80	1953	400	320	310	280
1934	200	100	90	80	1954	400-410	350-330	340-320	320-290
1935	125-160	100	90	80	1955	350-310-330	330-270	320-210	290-230
1936	Nominal	105-110	95-90	85-90					

NOTE:— Prices quoted are per ton of round fish in good condition landed at cannery dock. All fish rejected by inspectors, either as landed or after precooking, are deducted from the gross weight.

Figures given undertake to state the prevailing market level. Where a range in prices is shown it represents a definite change in market level in the course of the season, the movement being from the first to the second

figures stated. Quotations for 1943 through 1945 are OPA ceiling prices for cannery fish, and represent the total amounts which may be paid the fishermen in cash or allowances, save for the cost of war-risk insurance. The lower figures in 1946 are ceiling prices and the higher represent levels attained after removal of OPA controls.

California Pack of Canned Tuna and Related Fishes

YEAR	Cases								GRAND TOTAL	YEAR
	SAN PEDRO DISTRICT				SAN DIEGO DISTRICT					
	Light Tuna	White Tuna	Other Tuna*	TOTAL	Light Tuna	White Tuna	Other Tuna*	TOTAL		
1912									75,900**	1912
1913									77,500**	1913
1914									217,000**	1914
1915									237,365**	1915
1916	315,880	82,593	6,457	404,930	71,062	13,593	245	84,900	489,830	1916
1917	382,273	118,769	11,928	512,970	140,563	17,261	12,746	170,570	683,540	1917
1918	228,241	82,801	87,110	398,152	50,129		73,072	123,201	521,353	1918
1919	487,812	144,383	65,008	697,203	62,318	47,869	24,572	134,759	831,962	1919
1920	668,012		1,534	669,546	167,633		1,623	169,256	838,802	1920
1921	72,410	255,194		327,604	27,869	82,157	48	110,074	437,678	1921
1922	334,733	166,496	3,651	504,880	129,349	27,269	23	156,641	661,521	1922
1923	312,187	209,591	17,803	539,581	224,315	88,014	4,869	317,198	856,779	1923
1924	134,497	278,855	113,401	526,753	27,207	106,958	11,382	145,547	672,300	1924
1925	323,422	358,940	116,149	798,511	187,909	95,007	11,936	294,852	1,093,363	1925
1926	380,074	43,660	150,185	573,919	188,649	14,578	56,280	259,507	833,426	1926
1927	381,541	105,598	231,751	718,890	436,700	20,916	30,368	487,984	1,206,874	1927
1928	473,868	99,093	128,374	701,335	473,704	658	21,581	495,943	1,197,278	1928
1929	394,819	130,212	146,104	671,135	700,020	2,426	55,284	757,730	1,428,865	1929
1930	658,728	143,748	130,159	932,635	950,461	1,783	35,510	987,754	1,920,389	1930
1931	394,668	144,796	85,653	625,117	543,536	177	10,303	554,016	1,179,133	1931
1932	385,399	52,215	88,112	525,726	606,608		15,655	622,263	1,161,151	1932
1933	341,290	49,391	71,388	462,069	877,124		52,980	930,104	1,392,173	1933
1934	714,546	82,182	116,526	913,254	982,547		31,509	1,014,056	1,927,310	1934
1935	808,578	107,501	230,772	1,139,851	1,222,894	4,648	109,323	1,336,875	2,476,727	1935
1936	840,151	53,849	153,107	1,047,107	1,392,531	35	147,509	1,540,075	2,587,182	1936
1937	881,208	83,123	260,016	1,224,346	1,680,720	8,036	105,211	1,793,967	3,018,314	1937
1938	697,804	265,034	233,766	1,196,604	1,282,571	24,355	95,202	1,402,128	2,598,732	1938
1939	882,225	281,666	262,367	1,526,258	1,633,113	46,372	70,917	1,750,402	3,305,297	1939
1940	1,110,181	122,484	315,778	1,548,443	2,045,071	19,304	251,623	2,315,998	3,868,394	1940
1941	554,782	73,024	235,910	863,716	1,372,594	10,145	274,643	1,657,382	2,530,169	1941
1942	594,056	128,670	97,901	820,627	1,164,524	104,578	146,234	1,415,336	2,242,220	1942
1943	554,928	187,052	234,382	976,362	699,099	227,347	394,265	1,320,711	2,308,415	1943
1944	805,081	125,632	270,821	1,201,534	760,263	307,806	537,889	1,605,958	2,809,177	1944
1945	825,377	148,286	503,118	1,476,781	1,518,646	329,251	128,686	1,976,583	3,456,442	1945
1946	1,170,791	141,629	646,615	1,959,035	2,023,870	233,622	332,529	2,590,021	4,555,397	1946
1947	1,317,016	104,726	733,587	2,155,329	2,576,804	145,300	418,797	3,140,911	5,357,498	1947
1948	1,284,615	290,811	771,182	2,346,608	3,096,315	462,255	406,248	3,964,818	6,346,952	1948
1949	810,362	289,063	1,458,374	2,557,799	2,987,150	449,413	449,413	3,951,576	6,590,396	1949
1950	1,024,410	586,683	2,673,668	4,284,761	1,412,220	1,961,297	1,961,297	3,856,411	8,141,172	1950
1951	3,143,863	580,377	77,229	3,801,469	3,015,164	10,260	10,260	3,435,243	7,530,264	1951
1952	4,204,207	1,002,020	196,453	5,402,680	1,742,124	34,234	34,234	2,403,302	8,102,842†	1952
1953	4,042,121	1,366,103	100,252	5,508,476	2,139,393	69,866	69,866	2,865,248	8,624,109†	1953
1954	4,712,414	1,206,664	27,126	5,946,204	2,880,712	48,409		3,302,847	9,638,773	1954
1955	4,713,406	1,351,131	3,465	6,068,002	1,690,679	1,243	1,243	2,176,567	8,244,569	1955

† Minor quantities of tuna canned in Monterey, San Francisco and elsewhere in northern California have been included in the grand total. Figures are for standard cases of 48 halves or equivalent. Figures for final year are temporary totals from official sources. Data for previous years have been corrected according to official statistics of the California Department of Fish and Game.

**Other-Tuna* through 1950 includes Bonito, Yellowtail, Flakes and Tonno. For 1951 and thereafter this column includes only Yellowtail and Bonito, Flakes and Tonno being included in other columns.

†Included under other heads.

**No Segregation available prior to 1916.

strike, etc., the production of the association's member canneries would be over 8,000,000 cases for 1955. He stated further that the Association and individual canners had spent

more than \$9,000,000 in 1955 to advertise tuna as a highly desirable, high-protein food. Carry believes that the forecast for 1956 is good—the cannery workers' contract, in effect

for the next two years, and a new, lower price for raw tuna combine to place canned tuna in a good position to compete with other protein foods.

Deliveries of Tuna in California

Year	(Pounds)							TOTAL
	Albacore	Bluefin	Bonito	Skipjack	Yellowfin	Shipments*		
						Light Meat	White Meat	
1926	2,469,921	6,526,533	3,121,604	20,951,348	12,564,986			45,634,392
1927	4,579,367	4,898,386	1,718,008	33,805,960	25,934,045			70,935,766
1928	283,321	13,700,870	2,105,903	15,948,104	32,253,206			64,291,404
1929	269,101	7,796,857	2,918,544	27,007,013	37,444,924			75,166,439
1930	283,117	21,921,282	5,164,260	20,485,587	56,654,181			104,508,427
1931	37,322	3,534,030	3,079,673	16,506,761	36,579,480			59,737,266
1932	619,694	1,071,206	2,862,286	21,636,577	36,923,410			63,113,173
1933	487	560,492	2,252,199	16,687,308	51,075,630			70,576,116
1934	171,105	18,357,828	3,232,694	14,830,194	60,913,160			97,474,981
1935	2,447,528	25,173,083	7,896,484	17,197,186	72,294,133			125,008,414
1936	956,771	18,924,883	7,215,916	27,006,105	78,352,644			132,456,319
1937	3,196,770	12,693,922	7,808,070	47,104,092	91,522,458			162,325,312
1938	12,522,594	17,728,031	7,839,993	22,653,631	78,288,144			139,032,393
1939	12,346,858	11,835,715	9,918,875	30,120,891	110,417,801			174,640,140
1940	5,588,670	19,970,268	5,290,928	56,650,155	113,898,209			201,398,266
1941	3,276,257	9,519,012	10,257,602	25,585,468	76,701,760			125,340,099
1942	10,621,193	12,844,564	1,650,689	38,715,182	41,167,441			104,999,069
1943	21,384,864	10,178,170	2,281,884	28,893,784	49,261,328			117,004,030
1944	17,865,866	20,332,011	818,871	29,964,377	62,236,029	972,721**	2,535,547**	134,761,422
1945	21,767,581	20,594,059	2,714,181	33,273,407	86,130,656	1,392,078	60,901	165,932,863
1946	18,064,047	22,031,748	5,625,648	40,877,307	126,425,688	1,028,674	.....	214,056,112
1947	13,145,780	20,837,634	13,697,171	52,315,449	149,066,794	1,539,245	269,397	250,871,470
1948	36,425,846	6,528,807	9,135,126	58,752,316	191,635,651	168,544	1,141,747	303,768,037
1949	44,017,014	4,389,471	1,629,541	78,564,030	184,972,285	691,199	254,664	314,718,204
1950	61,746,421	2,738,963	695,614	124,724,565	182,224,422	11,360,744	4,378,420	387,669,149
1951	30,677,931	3,862,418	776,803	115,778,923	160,547,928	16,618,444	17,520,891	345,183,338
1952	49,789,314	4,576,685	2,142,157	84,734,226	178,376,101	11,301,336	22,525,248	353,445,067
1953	33,834,626	9,172,855	3,102,647	122,306,183	132,086,346	16,888,789	46,186,816	363,578,262
1954	26,107,290	21,024,820	2,319,060	153,756,190	119,401,795	47,434,639	38,466,383	408,510,177

*These are largely importations into California, but included are some fish caught by California fleet and landed outside the United States.

**Shipments not available prior to 1944

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T E R M I N A L I S L A N D , C A L I F O R N I A

1955 -PACIFIC NORTHWEST ALBACORE PACK-1955

COMPANY	CANNERY LOCATION	FANCY & STANDARD		CHUNKS & FLAKES		TOTAL Standard Cases 48 Halves,
		Halves 4 doz.	Other Sizes	White Meat 48 Halves,	White & Dark 48 Halves,	
Columbia River Packers Assn.	Astoria	289,249	39,810	47,377	24,563	400,999
Crown Packers, Inc.	Seattle	3,803	...	192	1,161	5,156
Lazio Fish Co., Tom	Eureka	1,016	...	256	48	1,320
Portland Fish Co.	Portland	8,357	...	1,661	1,334	11,352
Adams Packing Co.	Hammond	25,010	1,108	5,655	5,957	37,730
West Coast Fish Co.	Aberdeen	27,711	...	2,644	8,486	38,841
Whiz Fish Products Co.	Hoquiam	11,479	...	...	...	11,479
TOTAL		366,625	40,918	57,785	41,549	506,877

● Albacore packing in the Pacific Northwest rose above the half-million-case mark again in 1955, despite the fact that the local fishery again—and for the sixth consecutive year—was a virtual failure.

The answer to this apparent paradox of course is that the Pacific Northwest white meat tuna pack was made in very large degree from imported tuna.

The scant landings of American-caught Albacore received in Oregon and Washington ports came primarily from boats which, fishing far to the south, had brought their final trips to their home ports for sale. The year saw little effort to find tuna off the North Coast, but fishing vessels from the Northwest comprised an important part of the Albacore fleet working out of Southern California.

● One notable fact of the North Coast tuna season was the dominance of one company, the Columbia River Packers Association at Astoria accounting for almost exactly four-fifths of the production.

Another interesting aspect of the pack, perhaps inherent in Albacore canning, was that approximately 80% of the pack was in the fancy and standards grades, only a relatively

NORTH COAST ALBACORE PACKS BY PORTS

(Cases)									
Oregon Coast	Columbia River	Oregon Total	Year	Pacific Northwest Regional Total	Year	Washington Total	Willapa-Columbia River	Grays Harbor	Puget Sound
...	450,081	450,081	1955	(a)506,877	1955	55,476	...	50,320	5,156
...	(a)419,820	(a)419,820	1954	470,196	1954	50,376	...	43,876	6,500
...	541,612	542,597	1953	594,073	1953	51,476	...	33,333	18,143
...	487,563	487,563	1952	588,926	1952	101,363	12,503	88,860	...
...	334,903	334,903	1951	398,236	1951	54,333	...	54,333	...
13,060	586,287	599,347	1950	701,014	1950	101,667	3,500	98,167	...
23,287	319,337	342,624	1949	432,919	1949	90,295	10,845	79,450	...
44,822	286,847	331,669	1948	417,354	1948	85,685	8,225	76,627	833
(a)47,123	281,062	(a)328,185	1947	(a)385,570	1947	57,385	8,434	48,508	443
23,243	121,386	144,629	1946	192,237	1946	47,608	...	47,608	...
55,747	348,958	404,705	1945	466,859	1945	62,154	...	62,154	...
40,000	(b)750,356	790,356	1944	846,596	1944	56,240	...	56,240	...
8,000	282,536	290,536	1943	301,414	1943	10,878	...	10,878	...
...	307,810	307,810	1942	314,353	1942	6,543	...	6,543	...
...	194,833	194,833	1941	197,629	1941	2,796	...	1,176	1,620
...	197,535	197,535	1940	207,723	1940	10,188	...	4,908	5,280
2,118	151,584	153,702	1939	(c)173,359	1939	15,857	...	3,100	12,757

(a) Includes some fish canned at Eureka, Calif. (b) Division of 1944 pack between Columbia River and Oregon Coast is only approximate. (c) Includes 3,800 cases canned in British Columbia.

Note:—Data for the several calendar years cover packs made from fish caught during those years, even though in some cases canning of frozen stocks may not have been completed until in the next calendar year.

NORTH COAST ALBACORE BY GRADES

(Cases)										
Fancy & Standard	OREGON			Year	PACIFIC Northwest Comb'd Totals	Year	WASHINGTON			
	Flakes		Total Cases				Total Cases	Flakes		Fancy & Standard
	White	Blended						White	Blended	
366,534	54,693	31,854	450,081	1955	506,877*	1955	55,476	2,836	9,647	42,993
321,224	8,328	90,268	419,820	1954	470,196	1954	50,376	4,397	10,627	35,442
375,461	83,240	83,896	542,597	1953	594,073	1953	51,476	3,355	10,763	37,358
323,870	81,297	82,396	487,563	1952	588,926	1952	101,363	25,041	8,950	67,372
254,173	23,984	56,746	334,903	1951	398,236	1951	54,333	12,347	3,186	38,800
430,712	62,849	101,319	594,880	1950	701,014	1950	106,134	18,791	15,277	72,066
265,266	24,336	52,697	342,299	1949	432,919	1949	90,620	23,244	5,731	61,645
231,138	48,563	50,404	330,125	1948	417,354	1948	87,229	15,540	9,372	62,409
231,075	50,163	45,464	(a)326,702	1947	(a)385,570	1947	58,868	5,876	11,179	41,813
101,478	23,477	19,674	144,629	1946	192,237	1946	47,608	7,251	5,708	34,649
274,420	69,454	55,674	(d)399,848	1945	466,859	1945	67,011	7,391	9,440	50,180
564,574	106,777	119,005	790,356	1944	(b)846,596	1944	56,240	...	16,249	40,000
250,982	39,554	...	290,536	1943	301,414	1943	10,878	...	1,775	9,103
...	...	...	307,810	1942	314,353	1942	6,543	...	...	...
...	...	...	194,751	1941	197,629	1941	2,796	...	...	...
...	...	...	197,735	1940	207,723	1940	10,188	...	...	...
...	...	...	153,702	1939	(c)173,359	1939	15,857	...	...	...

(a) Includes 3,231 cases fancy and 985 cases flakes canned at Eureka, Calif.
(b) Division of 1944 pack as to grades is approximate only.
(c) Includes a small quantity canned at Ilwaco, Wash.
(d) Includes 3,800 cases canned in British Columbia.

Note:—Grade segregation not available for years prior to 1943. Figures for the several calendar years cover quantities packed from fish caught during those years, even though in some cases canning of frozen stocks may not have been completed until the next calendar year.
*Includes a small quantity canned at Eureka, Calif.

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Tuna Clipper Fleet Explanatory Notes — See Following Page

NOTE—In the accompanying table of California tuna clippers, in some cases yards listed under "Builder" actually were the yards where the vessels were converted to tuna fishing, rather than the original builder. In the above table names of yards have been abbreviated as follows: **Avondale**, Avondale Marine Ways, New Orleans; **Bellingham**, Bellingham Iron Works, Bellingham, Wash.; **Birchfield**, Birchfield Boiler, Inc., Tacoma; **Campbell**, Campbell Machine Works, San Diego; **Chilman**, Chilman Shipyard, Hoquiam, Wash.; **Consolidated**, Consolidated Steel Corporation, Newport Beach; **Fulton**, Fulton Shipyard, Antioch, Calif.; **Genoa**, Genoa Boat Works, San Francisco; **Guntert**, Guntert & Zimmerman, Stockton, Calif.; **Harbor**, Harbor Boat & Yacht Co., San Diego; **Hodgson**, Hodgson-Greene-Haldeman, Long Beach; **Lake Union**, Lake Union Dry Dock Co., Seattle; **Al Larson**, Al Larson Boat Co., Terminal Island; **Long Beach**, Long Beach Marine Repair, Long Beach; **Lynch**, Lynch Shipbuilding Co., San Diego; **Marine**, Marine View Boat Building Co., Tacoma; **Martinac**, J. M. Martinac Shipbuilding Corporation; **Martinolich**, Martinolich Shipbuilding Co., San Diego; **National**, National Steel & Shipbuilding Co., San Diego; **Peterson**, Peterson Boat Building Co., Tacoma; **Puget Sound**, Puget Sound Boat Building Co., Tacoma; **Rask**, Peter Rask Boat Yard, San Diego; **San Diego**, San Diego Marine Construction Co., San Diego; **Schulte**, Schulte Boat Works, Gardiner, Ore.; **Soule**, Soule Steel Co., Stockton, Calif.; **Tacoma**, Tacoma Boatbuilding Co., Tacoma; **United**, United Concrete Pipe Co., Long Beach; **Western**, Western Boatbuilding Co., Tacoma. *Ownership as shown by latest edition of "Merchant Vessels of the United States".

OREGON - WASH IMPORTS OF FROZEN TUNA BY MONTHS

SPECIES	Tons												Total
	Nov.'54	Dec.'54	Jan.'55	Feb.	March	April	May	June	July	August	Sept.	Oct.	
Tuna:													
Albacore			...	745	268	451	537	750	2,716	350	25	1,220	7,062
Other **			...	5	1	395	43	142	657	788	103	759	2,893
Unclassified ***			...	...	...	...	...	...	...	...	...	...	...
TOTAL	*	*	...	750	269	846	580	892	3,373	1,138	128	1,979	9,955
1953-54													
All Tuna	*	*	188	697	417	1,568	1,472	1,895	741	1,922	831	1,855	11,586

* Not available.

** Mostly Yellowfin.

*** Mostly Albacore and Yellowfin.

small percentage going into the chunk or grated packs.

● Pacific production of light meat tuna in areas outside of California showed increase in 1955.

Not a small part of the tuna on which this advance was based consisted of clipper cargoes delivered direct to Pacific Northwest ports dur-

ing the period of the cannery strike in Southern California, or when the boats were being held there for some time before unloading, due to the slow-up in movement to market.

● Renewal of the contract with Japanese tuna producers to deliver catches to the Van Camp Sea Food Co. cannery in American Samoa during 1956

was announced late in 1955, assuring continuance of this operation.

Fleet delivering was to be somewhat smaller, as productivity of the area showed that a fleet as large as that of 1955 was unnecessary.

The cannery contributed valuably to the economy of the people of this American island possession.

SAN DIEGO CANNED TUNA

	(Cases — All Sizes)								
Year	Yellowfin	Bluefin	Skipjack	Albacore	Tonno	Tuna Flakes	Yellowtail	Bonito	TOTAL
1926	96,363	2,758	85,389	14,555	40,864	4,162	10,566	4,850	259,507
1927	200,635	9,645	226,420	20,481	10,221	435	15,703	4,444	487,984
1928	287,770	46,348	130,430	658	11,783	9,156	4,755	5,043	495,943
1929	458,687	22,637	218,696	2,426	31,351	10,906	9,451	3,576	757,730
1930	739,616	6,944	185,848	1,783	17,875	18,053	4,838	12,797	987,754
1931	431,229	....	112,307	177	706	6,591	749	2,257	554,016
1932	403,050	177	203,381	....	....	4,774	668	10,213	622,263
1933	678,810	1	198,313	....	....	2,183	32,129	18,668	930,104
1934	780,066	6,683	195,798	....	....	8,100	6,100	17,309	1,014,056
1935	948,276	24,871	249,747	4,648	545	7,749	64,054	36,985	1,336,875
1936	1,074,811	22,390	295,330	35	740	14,967	95,059	36,743	1,540,075
1937	1,165,866	27,103	487,751	8,036	1,125	15,904	44,128	44,054	1,793,967
1938	1,010,814	49,840	221,917	24,355	....	17,384	43,794	34,024	1,402,128
1939	1,348,565	27,020	257,528	46,372	7,318	31,136	12,875	19,588	1,750,402
1940	1,469,428	45,867	529,776	19,304	60,138	141,861	27,621	22,003	2,315,998
1941	1,016,759	32,369	323,466	10,145	308	130,004	103,066	41,265	1,657,382
1942	545,517	28,413	590,594	104,578	....	111,096	20,965	14,173	1,415,336
1943	392,114	12,021	294,964	227,347	....	381,967	5,488	6,810	1,320,711
1944	485,796	16,473	257,994	307,806	....	530,368	3,237	4,284	1,605,958
1945	1,037,009	22,742	458,895	329,251	....	96,162	14,074	18,450	1,976,583
1946	1,549,557	28,753	445,560	233,622	....	268,767	28,965	34,797	2,590,021
1947	1,875,087	6,557	695,170	145,300	26,359	323,511	45,800	23,127	3,140,911
1948	2,364,819	1,991	729,505	462,255	....	366,828	31,362	8,058	3,964,818
1949	2,059,468	2,889	904,793	535,013	4,038	420,491	22,695	2,189	3,951,576
1950	913,458	3,300	495,462	482,894	54,988	1,898,568	3,235	4,506	3,856,411
1951	....	2,424,215*	....	370,000	58,042	584,201	....	270**	3,437,428
1952	....	1,405,292*	....	534,574	44,576	485,423	....	3,115**	2,472,980
1953	....	1,674,428*	....	494,137	55,009	515,704**	52,042	17,824	2,809,144
1954	....	812,525*	....	249,972	64,155	2,147,546**	20,983	27,426	3,322,607

*Yellowfin, Bluefin and Skipjack not given separately.

***Includes miscellaneous.

**Yellowtail and Bonito not given separately.

California Tuna Clipper Fleet—1956

Following list represents the California fleet of live-bait tuna fishing vessels—"clippers"—delivering to San Pedro or San Diego canneries at the end of 1955. It does not include American-built vessels delivering all or

the major part of their catches in foreign ports, or those based in foreign countries and delivering to carriers for transport to United States ports. "Capacity" is the approximate number of tons of refrigerated tuna in a maximum load for the vessel.

Name of Boat	Builder	Length	Capacity	Managing Owner
<i>Aggressor</i>	Martinolich	125	320	Joseph Rogers
<i>Agnes C.</i>	Western	98	160	Van Camp Sea F'd Co.
<i>Alphecca</i>	National	128	240	Ambrose Co.
<i>American Beauty</i>	Campbell	142	350	G. P. Ellington
<i>American Boy</i>	Consolidated	124	310	Joaquim Canas
<i>American Enterprise</i>	Lynch	128	275	M. S. Rice
<i>American Lady</i>	Al Larson	98	165	R. X. Madruga
<i>Antoinette B.</i>	National	121	280	Edw. X. Madruga
<i>Azoreana</i>	Campbell	142	375	M. G. Rosa
<i>Balboa</i>			55	John Zolezzi
<i>Belle of Portugal</i>	Campbell	130	325	M. G. Rosa
<i>Benita</i>	Campbell	90	125	Mario Toso
<i>Bernadette</i>	Campbell	145	350	Frank Medina
<i>Bond</i>	Joe Romero	52	30	Roy Wilson
<i>Cabrillo</i>	National	127	340	Joe Soares
<i>Cal</i>	Campbell	90	110	Geo. Campbell
<i>Cape Beverly</i>	Martinac	113	185	J. M. Martinac
<i>Cape Falcon</i>	Harbor	128	240	Louis Peterson
<i>Cape San Vincent</i>	Tacoma	91	130	Vincent Gann
<i>Carol Virginia</i>	National	115	200	National Marine
<i>Challenger</i>	Avondale	122	240	Lewis Livesley
<i>Charlene</i>	Martinolich	115	215	Dr. O. H. Warner
<i>Chicken of the Sea</i>	Birchfield	143	420	Harold Morgan Jr.
<i>City of San Francisco</i>	Genoa	95	110	Joseph Colla
<i>Clara Marie</i>	No. American	62	60	Frank Mangiapone
<i>Coimbra</i>	Western	136	300	Van Camp Sea Food
<i>Columbia</i>	Martinac	107	210	Manuel Serpa
<i>Commander</i>	Birchfield	126	290	Al Davis
<i>Commodore</i>	Campbell	130	260	Louis Vattuone
<i>Concho</i>	National	127	340	Nat'l. Marine Terminal
<i>Conte Bianco</i>	National	127	300	Stefano Massa
<i>Conte di Savoia</i>	Consolidated	125	310	National Marine
<i>Constitution</i>	Campbell	150	390	Vernon Brown
<i>Cora Ann</i>	Harbor	73	70	*M. J. Rankin
<i>Corsair</i>	Chilman	128	280	Harold Morgan
<i>Courageous</i>	United	131	325	Lewis Livesley
<i>Crusader</i>	Puget Sound	105	250	*J. G. Cardosa
<i>Daiho II</i>		80	55	*C. M. Johnson
<i>Defiance</i>	Tacoma	106	220	Ted Lucich
<i>Deolinda</i>	San Diego	100	140	Manuel Silva
<i>Dominator</i>	National	127	340	George Soares
<i>Aggressor</i>	Martinolich	125	320	Joseph Rogers
<i>Agnes C.</i>	Western	98	160	Van Camp Sea F'd Co.
<i>Alphecca</i>	National	128	240	Ambrose Co.
<i>American Beauty</i>	Campbell	142	350	G. P. Ellington
<i>American Boy</i>	Consolidated	124	310	Joaquim Canas
<i>American Enterprise</i>	Lynch	128	275	M. S. Rice
<i>American Lady</i>	Al Larson	98	165	R. X. Madruga
<i>Antoinette B.</i>	National	121	280	Edw. X. Madruga
<i>Azoreana</i>	Campbell	142	375	M. G. Rosa
<i>Balboa</i>			55	John Zolezzi
<i>Belle of Portugal</i>	Campbell	130	325	M. G. Rosa
<i>Benita</i>	Campbell	90	125	Mario Toso
<i>Bernadette</i>	Campbell	145	350	Frank Medina
<i>Bond</i>	Joe Romero	52	30	Roy Wilson
<i>Cabrillo</i>	National	127	340	Joe Soares
<i>Cal</i>	Campbell	90	110	Geo. Campbell
<i>Cape Beverly</i>	Martinac	113	185	J. M. Martinac
<i>Cape Falcon</i>	Harbor	128	240	Louis Peterson
<i>Cape San Vincent</i>	Tacoma	91	130	Vincent Gann
<i>Carol Virginia</i>	National	115	200	National Marine
<i>Challenger</i>	Avondale	122	240	Lewis Livesley
<i>Charlene</i>	Martinolich	115	215	Dr. O. H. Warner
<i>Chicken of the Sea</i>	Birchfield	143	420	Harold Morgan Jr.
<i>City of San Francisco</i>	Genoa	95	110	Joseph Colla
<i>Clara Marie</i>	No. American	62	60	Frank Mangiapone
<i>Coimbra</i>	Western	136	300	Van Camp Sea Food
<i>Columbia</i>	Martinac	107	210	Manuel Serpa
<i>Commander</i>	Birchfield	126	290	Al Davis
<i>Commodore</i>	Campbell	130	260	Louis Vattuone
<i>Concho</i>	National	127	340	Nat'l. Marine Terminal
<i>Conte Bianco</i>	National	127	300	Stefano Massa
<i>Conte di Savoia</i>	Consolidated	125	310	National Marine
<i>Constitution</i>	Campbell	150	390	Vernon Brown
<i>Cora Ann</i>	Harbor	73	70	*M. J. Rankin
<i>Corsair</i>	Chilman	128	280	Harold Morgan
<i>Courageous</i>	United	131	325	Lewis Livesley
<i>Crusader</i>	Puget Sound	105	250	*J. G. Cardosa
<i>Daiho II</i>		80	55	*C. M. Johnson
<i>Defiance</i>	Tacoma	106	220	Ted Lucich
<i>Deolinda</i>	San Diego	100	140	Manuel Silva
<i>Dominator</i>	National	127	340	George Soares
<i>Aggressor</i>	Martinolich	125	320	Joseph Rogers
<i>Agnes C.</i>	Western	98	160	Van Camp Sea F'd Co.
<i>Alphecca</i>	National	128	240	Ambrose Co.
<i>American Beauty</i>	Campbell	142	350	G. P. Ellington
<i>American Boy</i>	Consolidated	124	310	Joaquim Canas
<i>American Enterprise</i>	Lynch	128	275	M. S. Rice
<i>American Lady</i>	Al Larson	98	165	R. X. Madruga
<i>Antoinette B.</i>	National	121	280	Edw. X. Madruga
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<i>Challenger</i>	Avondale	122	240	Lewis Livesley
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<i>Concho</i>	National	127	340	Nat'l. Marine Terminal
<i>Conte Bianco</i>	National	127	300	Stefano Massa
<i>Conte di Savoia</i>	Consolidated	125	310	National Marine
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<i>Crusader</i>	Puget Sound	105	250	*J. G. Cardosa
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<i>Defiance</i>	Tacoma	106	220	Ted Lucich
<i>Deolinda</i>	San Diego	100	140	Manuel Silva
<i>Dominator</i>	National	127	340	George Soares
<i>Aggressor</i>	Martinolich	125	320	Joseph Rogers
<i>Agnes C.</i>	Western	98	160	Van Camp Sea F'd Co.
<i>Alphecca</i>	National	128	240	Ambrose Co.
<i>American Beauty</i>	Campbell	142	350	G. P. Ellington
<i>American Boy</i>	Consolidated	124	310	Joaquim Canas
<i>American Enterprise</i>	Lynch	128	275	M. S. Rice
<i>American Lady</i>	Al Larson	98	165	R. X. Madruga
<i>Antoinette B.</i>	National	121	280	Edw. X. Madruga
<i>Azoreana</i>	Campbell	142	375	M. G. Rosa
<i>Balboa</i>			55	John Zolezzi
<i>Belle of Portugal</i>	Campbell	130	325	M. G. Rosa
<i>Benita</i>	Campbell	90	125	Mario Toso
<i>Bernadette</i>	Campbell	145	350	Frank Medina
<i>Bond</i>	Joe Romero	52	30	Roy Wilson
<i>Cabrillo</i>	National			

<i>Ecuador</i>	National	133	460	M. O. Medina	<i>Sea Lark</i>	National	165	550	Nat'l. Marine Terminal
<i>Electra</i>	San Diego	57	50	*Dan Battaglia	<i>Sea Lion</i>	Hodgson	91	133	Manuel Calergio
<i>Elena</i>	Martinolich	98	150	W. H. Babcock	<i>Sea Magic</i>	Avondale	121	200	E. Frederick
<i>Endeavor</i>	Campbell	143	400	Wade Ambrose	<i>Sea Preme</i>	National	127	320	Nat'l. Marine Terminal
<i>Equator</i>	National	133	360	M. O. Medina	<i>Shamrock</i>	San Diego	105	175	Ernie Monteiro
<i>Espirito Santo</i>	Soule	140	485	Frank Perry	<i>Shasta</i>	San Diego	96	115	Jack Canepa
<i>Explorer</i>	Lynch	165	575	Arnie Strom	<i>Sheryl</i>	Schulte	67	55	*B. L. Johnson
<i>Evelyn R</i>	Long Beach	126	240	M. M. Medina	<i>South Coast</i>	Western	115	195	Dan Marks
<i>Excalibur</i>	Avondale	121	240	Ave Gonsalves	<i>South Seas</i>	Hodgson	95	165	Manuel Labrancia
<i>Far-Famed</i>	Campbell	125	200	S. Parmigiani	<i>Southern Pacific</i>	Martinac	123	260	J. M. Martinac
<i>Favorite</i>	Puget Sound	105	200	Antonio da Rosa	<i>Southern Queen</i>	Martinac	100	160	John Rippo
<i>Frances Marie</i>	Martinolich	103	165	Frank Perry	<i>Southland</i>	Martinac	100	160	California Marine
<i>Gem of the Sea</i>	Martinac	128	280	Manuel E. Simas	<i>Star Crest</i>	San Diego	110	200	Star & Crescent
<i>Golden Glow</i>	Peterson	96	155	Frank Fernandes	<i>Star of the Sea</i>	Campbell	115	190	Nat'l. Marine Terminal
<i>Helen Ann</i>	Bellingham	130	240	A. T. Procopio	<i>Sun Dawn</i>	Martinolich	128	240	Sun Pacific
<i>Helen S</i>	Harbor	120	280	Manuel Simas	<i>Sun Dial</i>	Puget Sound	131	470	G. W. McHenry
<i>Heroic</i>	Lynch	116	200	M. O. Medina	<i>Sun Dora</i>	Martinolich	128	260	Antonio Oliveira
<i>High Seas</i>	Hodgson	128	290	J. F. Reis	<i>Sun Europa</i>	Martinolich	149	350	Sam Crivello
<i>Historic</i>	Martinac	128	240	M. O. Virissimo	<i>Sun Glow</i>	Puget Sound	98	150	Anthony Madruga
<i>Hornet</i>	Harbor Boat	128	270	Al. R. Virissimo	<i>Sun Hawk</i>	Pacific Boat	93	130	George Alameda
<i>Indepndence</i>	National	127	340	Nat'l. Marine Terminal	<i>Sun Hilarita</i>	Avondale	130	310	Virgil Paixao
<i>Intrepid</i>	Lynch	128	270	George Budd	<i>Sun Jason</i>	Avondale	132	280	Nat'l. Marine Terminal
<i>Invader</i>	Campbell	117	150	Sal. Navarra	<i>Sun King</i>	Pacific	112	250	John Xitco
<i>Irene S</i>	Al Larson	105	210	Van Camp	<i>Sun Pacific</i>	Tacoma	128	250	Roman M. Luz
<i>Jeanne Lynn</i>	Tacoma	122	250	G. W. Martin	<i>Sun Queen</i>	Hodgson	131	260	C. A. Cutri
<i>Jenita</i>	National	106	140	G. W. McHenry	<i>Sun Ray</i>	United	121	280	Steve Kral
<i>Joan of Arc</i>	United	131	300	Manuel Balelo	<i>Sunset</i>	United	121	220	Anthony Bregante
<i>Jo Maria</i>	Hodgson	123	260	Mrs. J. Sciuto	<i>Sun Splendor</i>	Campbell	128	240	Sun Pacific Inc.
<i>Judy S</i>	Harbor	124	230	Nat'l. Marine Terminal	<i>Sun Venus</i>	Martinolich	103	160	*Alfred Brum
<i>Julia B</i>	Lynch	96	160	John Ghio	<i>Sun Victoria</i>	Campbell	149	370	*Sun Pacific, Inc.
<i>Katie Lou</i>	Lynch	124	225	Felix Budzilko	<i>Supreme</i>	Campbell	128	260	Manuel Correia
<i>Kitty Hawk</i>	United	131	290	N. C. Andrews	<i>Talisman</i>	No. American	75	50	*So. Calif. Fish Co.
<i>Leona C</i>	Martinac	128	210	Joe Penacho	<i>Trojan</i>	Hodgson	55	30	Sam Meserve
<i>Liberty</i>	Puget Sound	100	180	Eddie X. Madruga	<i>United Victory</i>	Martinac	116	240	*Arthur DeFever
<i>Lone Wolf</i>	Harbor	69	70	John Zolezzi	<i>Valiant</i>	Campbell	108	180	Calif. Marine
<i>Lou Jean</i>	Consolidated	106	210	Louis Guidi	<i>Venetian</i>	Campbell	65	55	*Steve Stagnare
<i>Lucky Star</i>	National	106	175	National Marine	<i>Veva R.</i>	Campbell	70	80	*Matteo Rodia
<i>Lucy Elena</i>	National	111	195	Manuel G. Rosa	<i>Victoria</i>	Marine View	140	380	The Ambrose Co.
<i>Lusitania</i>	Al Larson	98	160	Harbor Boat Co.	<i>Victory</i>	Tacoma Boat	91	110	O. H. Warner
<i>Magellan</i>	San Diego	105	150	Steve Zolezzi	<i>Virginia R</i>	Lynch	108	240	Joe C. Correia
<i>Marie Louise</i>	San Diego	75	75	F. W. Szalinski	<i>West Coast</i>	Western	96	180	John Ghio
<i>Mariner</i>	Fulton	128	280	Frank Perry	<i>Western Ace</i>	Tacoma	165	575	Hervey Petrich
<i>Martin B</i>	National	128	270	National Marine	<i>White Sea</i>	Harbor	112	250	Carl Hanken
<i>Mary Barbara</i>	Puget Sound	100	140	Jack Canas	<i>White Star</i>	Guntert	128	280	White Sea Corp.
<i>Mary C. Canas</i>	National	127	340	Nat'l. Marine Terminal	<i>Wiley V. A.</i>	Guntert	140	484	John Tasso
<i>Missouri</i>	Martinac	108	170	Joe Rogers	<i>Zarco</i>		122	170	The Ambrose Co.
<i>Jean Jean</i>									Zarco Fishing Co.
<i>Mary Jo</i>									

(Refer to explanatory note on page 133.)

SAN DIEGO MARINE CONSTRUCTION CO.

A yard that is constantly improving its facilities—in good times or bad—for better serving the Pacific Coast commercial fishing fleets.

TODAY— No Fishing vessels are too large—or too small—for this yard to handle and haul out.

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PRACTICALLY EVERY MAJOR
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WAYNE JOHNSON, Manager

Gain Substantial, But Not Spectacular

● California's sardine industry continued its comeback in 1955 with the best catch in four years, plus a strengthening market.

The gain was not spectacular, but it was consistent in sustaining the upward trend which has marked the fishery in the past few years.

Once again the fishing was virtually all in southern waters, although the Central California operators secured a somewhat greater proportion of the catch than usual, hauling it by fast truck to their plants for packing.

Delay in opening of the season, due in part to difficulty in reaching a price settlement, and in part to the Southern California fish cannery

workers strike, held-back fishing into October. Had it started earlier, catch for the season unquestionably would have been somewhat larger.

Markets for California canned sardines were definitely better than a year before, and strengthened as the season advanced. This was believed due in large degree to reduction in the competing supplies available from South Africa, as well as failure of the Japanese sardine industry to recover its full potential.

● Where some 14 plants were busy canning sardines in the Monterey and Moss Landing area in 1951, and nine plants active in the San Francisco Bay

area, in 1955—four years later—only two plants were active in the San Francisco area on sardines, and six in the Monterey-Moss Landing area.

The plants still packing fish trucked up from the Santa Barbara-Port Hueneme area were J-D Packing Co., and Northern Packing Co. in San Francisco, and the Santa Cruz Canning Co., Moss Landing, and Enterprise Packers, San Xavier Fish Packing Co., California Packing Corporation, Ferrante Fisheries (formerly Atlantic Coast Fisheries), and Hovden Food Products Corp., Monterey.

The mortality among sardine reduction plans was even greater. Due to the scarcity of fish in both southern California and northern California

1955 - CALIFORNIA SARDINE PRODUCTION - 1955

Month	Tons Received	Cases 1-lb. Oval 4 doz.	Cases 1-lb. Tall 4 doz.	Cases 8 oz. Oblong 48	Cases 5 oz. All 100s	Cases Other Sizes	Total Cases Actual Count	Total Standard Cases 48 - 1 lb.	Month
January	477	5,543	3,698	21	450	1,009	10,721	10,644	January
August	...	...	...	...	...	...	...	...	August
September	...	...	...	...	...	...	...	...	September
October	13,488	240,014	50,199	...	2,131	4,740	297,084	296,751	October
November	37,328	394,606	246,784	24,605	79,774	20,081	765,850	745,818	November
December	18,713	218,229	145,486	24,251	36,376	12,125	436,467	436,467	December
Fall Total	69,529	852,849	442,469	48,856	118,281	36,946	1,499,401	1,479,027	Fall Total
Grand Total	70,006	858,392	446,167	48,877	118,731	37,955	1,510,122	1,489,671	Grand Total

1955 - CALIFORNIA ANCHOVY PACK - 1955

Month	Tons Delivered	1-lb. Oval	1-lb. Tall	8-oz. Buffet	8-oz. Oblong	5-oz. Round 100s	Total	Month
January	2,694	6,982	...	...	...	69,723	76,705	January
February	2,344	2,382	...	...	...	60,638	63,020	February
March	3,471	5,107	...	3,785	1,431	72,561	82,884	March
April	2,887	9,713	...	7,147	4,297	33,127	54,284	April
May	3,647	15,967	...	9,321	3,223	41,836	70,347	May
June	1,215	3,225	...	8,175	2,954	17,119	31,473	June
July	1,308	1,878	...	3,651	4,325	12,046	21,900	July
August	1,469	3,651	...	460	2,132	13,253	19,496	August
September	312	2,814	64,892	...	...	800	68,506	September
October	170	326	...	...	...	715	1,041	October
November	853	2,904	...	...	307	13,242	16,453	November
December	708	3,550	...	...	...	17,046	20,596	December
TOTAL	21,078	58,499	64,892	32,539	18,669	352,106	526,705	TOTAL

CALIFORNIA CANNED SARDINE PACK

YEAR	MONTEREY AND SAN FRANCISCO BAY DISTRICT													SAN PEDRO DISTRICT					SAN DIEGO DISTRICT TOTAL	GRAND TOTAL	YEAR
	(Cases)																				
	1-lb. Ovals	1-lb. Tails	1-lb. Cans Misc.	1/2-lb. Fillets	5-oz. Tails	Other Sizes	TOTAL	1-lb. Ovals	1-lb. Tails	1-lb. Cans Misc.	5-oz. Tails	Other Sizes	TOTAL								
1912	17,702					1,072	18,774									18,774	1912				
1913	73,686						73,686									73,686	1913				
1914	80,834						80,834									80,834	1914				
1915	46,625					609	47,234									47,234	1915				
1916	97,100						97,100									97,100	1916				
1917	331,065					29,809	360,874	2,512				3,296	5,808	54,655	166,095	191,917	1917				
1918	593,448					26,151	619,600	325,587				546,033	1,313,347	1,484,979	1,484,979	1918					
1919	805,884					27,084	832,968	125,784				105,741	231,514	1,061,418	1,061,418	1919					
1920							706,726						244,900	111,370	1,062,996	1,062,996	1920				
1921							298,929						3,765	80,813	389,112	389,112	1921				
1922	353,188					10,975	364,163	77,048					340,938	27,140	729,034	729,034	1922				
1923	580,984					10,001	590,985	490,064					696	48,205	1,132,023	1,132,023	1923				
1924	631,774					22,416	654,190	693,133					2,769	49,624	1,420,128	1,420,128	1924				
1925	737,743					37,119	774,862	920,191					4,491	697,624	1,753,179	1,753,179	1925				
1926	1,158,133					2,867	1,161,000	861,088					21,702	861,481	2,163,755	2,163,755	1926				
1927	1,341,872					237	1,342,109	1,046,453						1,166,268	2,625,412	2,625,412	1927				
1928	1,511,535					4,569	1,516,104	1,438,159	9,652				146,724	1,099,052	2,815,330	2,815,330	1928				
1929	2,039,526					11	2,040,537	1,438,159	76,271	8,072			168,039	1,724,294	3,941,459	3,941,459	1929				
1930	1,579,408					3,751	1,583,159	863,234	106,460	2,909			228,965	1,209,726	3,069,524	3,069,524	1930				
1931	1,004,215					43,722	1,047,937	498,996	59,853	11,931			119,330	691,637	1,794,991	1,794,991	1931				
1932	459,756					88	460,544	413,874	36,292				54,197	506,363	7,641	7,641	1932				
1933	838,533						838,533	365,750	57,969				43,996	482,051	1,422,860	1,422,860	1933				
1934	1,091,158						1,091,158	531,619	119,506				164,735	815,860	2,051,736	2,051,736	1934				
1935	1,126,466						1,126,466	615,808	135,531	25,519			112,264	889,373	2,532,762	2,532,762	1935				
1936	1,089,683						1,089,683	586,038	259,793	132,488			156,649	1,135,717	2,819,643	2,819,643	1936				
1937	679,317						679,317	761,776	634,215	263,729			200,060	1,861,289	2,983,204	2,983,204	1937				
1938	721,036						721,036	600,532	318,691	212,064			162,245	1,293,532	2,464,263	2,464,263	1938				
1939	1,248,747						1,248,747	627,524	308,896	217,100			178,072	1,333,112	2,926,162	2,926,162	1939				
1940	933,955						933,955	664,241	398,960	230,772			156,681	1,450,725	3,326,162	3,326,162	1940				
1941	1,601,506						1,601,506	689,210	870,256	216,972			151,884	1,929,958	5,395,284	5,395,284	1941				
1942	802,795						802,795	619,881	1,342,030	85,776			2,918	2,141,277	5,395,284	5,395,284	1942				
1943	1,045,451						1,045,451	400,504	846,314	44,516			2,235	1,320,076	3,846,785	3,846,785	1943				
1944	1,051,397						1,051,397	434,414	963,551	23,297			1,040	1,422,302	3,846,785	3,846,785	1944				
1945	766,554						766,554	444,649	1,480,175	48,215				1,973,039	3,846,785	3,846,785	1945				
1946	123,063						123,063	602,008	2,073,679	73,125				2,748,812	3,846,785	3,846,785	1946				
1947	108,289						108,289	802,243	29,327	57,260				1,399,580	3,846,785	3,846,785	1947				
1948	400,841						400,841	611,927	970,569	120,413				2,050,900	3,846,785	3,846,785	1948				
1949	869,104						869,104	822,053	1,112,939	134,890				2,435,120	3,846,785	3,846,785	1949				
1950	427,416						427,416	1,476,695	2,356,213	355,087				4,603,242	5,430,439	5,430,439	1950				
1951	377,754						377,754	1,030,080	971,971	74,273				3,052,642	3,052,642	3,052,642	1951				
1952	123,215						123,215	34,694	1,513	1,317				105,830	105,830	105,830	1952				
1953	242,350						242,350	41,340	18,902	1,773				64,084	64,084	64,084	1953				
1954								155	488,981	39,426				1,437,228	1,437,228	1,437,228	1954				
1955								13,686	33,245	35,191				1,489,671	1,489,671	1,489,671	1955				

*Where sizes are not segregated, they are combined with 1-lb. Tails. Figures for years prior to 1950 are given in cases "as they run", without reduction to standard cases. The great majority of the production, however, consists of 48-lb. cases. Figures for "Other Sizes" in 1950 and after have been reduced to standard cases, equivalent to cases of 48-1-lb. ovals.

NOTE: Figures for 1955 are preliminary totals from official sources. Those for previous years have been corrected from statistics of the California Division of Fish and Game.

Full segregation of the various sizes is not available for years prior to 1926 and is estimated for 1950.

waters during the past few years, the Fish & Game Commission has granted no permits for unrestricted reduction of sardines, and the "straight reduction" plants are out of business.

From many of the plants that are no longer operating the machinery has been removed and sold piece-meal or as units, and shipped to South and Central America and other countries.

In 1951 there were 29 sardine reduction plants in the Moss Landing-Monterey area, in 1955 there were but 11 plants still intact—six of these were in conjunction with the canneries mentioned above.

In the San Francisco area there were in 1951 some 33 sardine reduction plants. In 1955 only 11 of these would be in a position to operate on sardines should the fish come back and reduction for straight fish meal and oil be allowed.

Through December, 1955, sardines trucked to San Francisco and Monterey from southern California waters totalled about 17,000 tons, against 9,700 tons during the 1954 season.

The central California season

started with more than the usual delay, due to a failure of boat owners and fishermen to agree on price. The first sardines of the 1955-56 season, which opened Aug. 1, were delivered Sept. 24 to Enterprise Packers on the Monterey Cannery Row, about 40 tons of choice 10" sardines from the Avila area. They were taken by the Monterey purse seiner *New Roma*, Capt. Nino Davi.

• The price to boat owners was \$47.50 per ton, less trucking charges.

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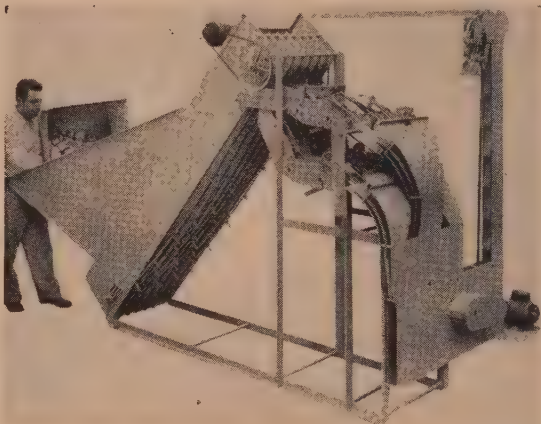
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California Sardine Industry

Future pack sardines in tomato sauce, ovals, were being quoted at \$6.75 per case before the season opened; and talls, natural, \$4.75 per case, San Francisco.

As the year ended ovals in tomato sauce were being quoted \$7.25-\$7.00; and talls, natural \$5.50 to \$5.25, for domestic shipment.

Early sales of canned sardines for export were \$6.50 for ovals and \$5.00 for talls, but as the year ended the market on ovals strengthened to \$6.75, while talls remained at \$5.00.

The canned sardine market remained dull all year, with little interest in either domestic or export sales.

The demand for sardines in the South, the biggest domestic market, appeared to be dead due to the long scarcity of California sardines, the general increase in prosperity in the area, and the fact that consumers in that area have turned to other canned fish items.

The reason for the export market being dull was given as the high price of California canned fish compared to Japanese or South African sardines, and the fact that these fish could be landed in export markets with much cheaper freight costs.

During the year Salvatore Cardinale, 86, a pioneer of the Monterey fishing industry, died at his home in Monterey. He was one of the organizers of the Monterey Purse Seiners' Association, and was its first president. He was born in Isle de Femine, Italy, and came to Monterey in 1895. He at one time owned and operated the purse seiner *Marie Joan*. Mr. Cardinale left three daughters and a son, Vincent, of Monterey.

Oxnard Cannery, Inc., property, cannery and reduction plants were sold in 1955 to Cannery Row Properties Co., and according to Wesley Dodge, president of Cannery Row Properties Co., the equipment was to be sold. To date this firm has purchased nine canneries and reduction plants in the Monterey area.

● A continued revival of the sardine industry will depend upon: (1) the production of larger year classes at more frequent intervals than has recently been the case and (2) an increase in the degree to which the population is available to the fishery, according to the Progress report of the California Cooperative Oceanic Fisheries Investigations July 1, 1953-March 1955, which was released shortly before the end of 1955 by the Marine Research Committee.

The report states that "we do not, as yet, understand the factors influencing both of these phenomena".

	Catch, Tons	Oil, Gallons	Meal, Tons	Case Pack, 1-lb. Ovals or Equiv.
1938-39 SEASON				
San Francisco District	200,361	7,804,909	34,751	224,112
Monterey District	180,090	5,462,066	28,859	1,063,363
San Pedro - San Diego District	148,125	2,235,082	22,603	1,286,301
Season TOTALS	528,576	15,502,057	86,213	2,573,776
1939 - 40 SEASON				
San Francisco District	211,471	9,313,706	36,324	286,639
Monterey District	227,231	7,080,963	34,568	1,763,401
San Pedro - San Diego District	93,176	985,323	12,161	1,084,928
Season TOTALS	531,878	17,389,992	83,053	3,134,968
1940-41 SEASON				
San Francisco District	117,817	4,809,853	20,541	288,413
Monterey District	165,145	5,197,570	25,805	1,219,846
San Pedro - San Diego District	171,747	2,390,887	24,776	1,608,207
Season TOTALS	454,709	12,398,310	71,122	3,116,466
1941-42 SEASON				
San Francisco District	185,921	7,162,343	29,935	854,709
Monterey District	249,717	7,222,663	36,309	2,429,804
San Pedro - San Diego District	147,825	2,113,939	18,859	1,870,601
Season TOTALS	583,463	16,498,965	85,103	5,155,114
1942-43 SEASON				
San Francisco District	115,586	4,467,454	19,114	413,165
Monterey District	183,158	5,590,335	28,255	1,429,652
San Pedro - San Diego District	202,597	3,090,994	29,614	1,862,073
Season TOTALS	501,341	13,148,783	76,983	3,704,890
1943-44 SEASON				
San Francisco District	126,132	5,018,816	20,064	425,487
Monterey District	212,383	6,578,416	32,840	1,563,036
San Pedro - San Diego District	135,007	2,185,779	20,608	1,161,750
Season TOTALS	473,522	13,783,011	73,512	3,150,273
1944-45 SEASON				
San Francisco District	136,337	5,616,063	22,258	271,528
Monterey District	234,613	8,305,401	34,920	887,190
San Pedro - San Diego District	177,465	3,781,148	26,795	1,102,662
Season TOTALS	548,415	17,702,612	89,973	2,261,380
1945-46 SEASON				
San Francisco District	83,483	3,581,808	12,765	456,001
Monterey District	142,282	4,803,560	20,297	1,220,579
San Pedro - San Diego District	170,325	2,846,216	23,481	2,073,963
Season TOTALS	396,090	11,231,584	56,543	3,750,543
1946-47 SEASON				
San Francisco District	2,846	65,002	519	6,590
Monterey District	26,818	755,674	3,893	155,329
San Pedro - San Diego District	198,052	3,314,193	26,870	1,931,544
Season TOTALS	227,716	4,134,869	31,182	2,093,463
1947-48 SEASON				
San Francisco District	383	4,440	37	5,793
Monterey District	14,492	260,375	1,756	222,867
San Pedro - San Diego District	95,362	1,458,983	11,762	1,258,660
Season TOTALS	110,237	1,723,798	13,555	1,487,320
1948-49 SEASON				
San Francisco District	1,688	16,590	127	34,197
Monterey District	52,203	783,627	5,566	914,624
San Pedro - San Diego District	127,350	1,436,939	13,301	2,113,897
Season TOTALS	181,241	2,237,156	18,994	3,062,718
1949-50 SEASON				
San Francisco District	17,798	607,004	2,917	81,040
Monterey District	133,570	3,431,286	17,513	1,606,767
San Pedro - San Diego District	186,392	2,402,760	23,343	2,632,305
Season TOTALS	337,760	6,441,050	43,773	4,320,112
1950-51 SEASON				
San Francisco District	.....	538,132	2,408	67,698
Monterey District	.....	1,132,643	6,443	759,172
San Pedro - San Diego District	.....	4,802,054	34,660	4,444,120
Season TOTALS	.....	6,472,829	43,511	5,270,990
1951-52 SEASON				
San Francisco District	321	6,350	32	4,342
Monterey District	24,864	327,149	2,217	495,542
San Pedro - San Diego District	101,356	1,121,770	10,855	1,867,978
Season TOTALS	126,541	1,455,269	13,104	2,367,862
1952-53 SEASON				
San Francisco District	.....	.....	.....	.....
Monterey District	285	2,345	14	5,740
San Pedro - San Diego District	3,330	15,529	186	64,819
Season TOTALS	3,615	17,874	200	70,559
1953-54 SEASON				
San Francisco District	.....	.....	.....	.....
Monterey District	58	410	3	1,335
San Pedro - San Diego District	2,568	12,218	161	61,622
Season TOTALS	2,626	12,628	164	62,957
1954-55 SEASON				
San Francisco District	814	4,550	45	18,883
Monterey District	8,674	86,032	567	192,525
San Pedro - San Diego District	57,654	669,922	5,926	1,180,517
Season TOTALS	67,142	780,504	6,538	1,391,925

The report goes on to state:

"The present crisis in the sardine industry has given rise to a number of questions, which we believe, may be expressed as follows:

"(1) What causes fluctuations in the size of the sardine population?

"(2) What causes fluctuations in the catch of sardines?

"(3) What influence does Man have on the sardine population?

"(4) What is the outlook for the future?

"What are the answers?"

"(1) Fluctuations in the size of the sardine population arise from differences between additions to the population (entering year classes) and subtractions from it (natural and fishing deaths). Estimates of the size of the sardine population over the period 1932-33 to 1953-54 are in the order of 4 to 40 billion fish in the 1930s, 2 to 25 billion in the 1940s and 1 to 15 billion in the first half of the 1950s, with an average minimal population of about 6 billion fish.

"The additions to the population, or year classes, from 1930 through 1950 have varied in minimal size from 0.01 in 1950 to 7.2 billion fish in 1939, with an average minimal size of 2.5 billion fish. The specific causes of such tremendous variation in year-class sizes are not known.

"(2) Fluctuations in the catch of sardines may be caused by fluctuations in the amount of fishing effort, fluctuations in the abundance of the population, and fluctuations in the availability of the population.

"Between 1932-33 and 1945-46 an increase in effort tended to result in a corresponding increase in catch and a decrease in effort tended to result in a corresponding decrease in catch. This relationship was immediate. After 1945-46 an increase in effort resulted in little or no increase in catch. Reasons for the decline in total catch are to be sought, therefore in variations in abundance and availability.

As to No. 3—the influence of Man on the sardine catch, the report states that "... we cannot state categorically how a fishery controlled at a fixed tonnage might have affected the sardine population between 1941 and 1953 and how much Man would have been able to harvest from that population".

"(4) The information requisite to successful and precise predictions of sardine catch is not now available. The major lacks (and this suggests future emphasis on sardine research) are information about availability changes and natural mortality changes. Estimates of the relative size of entering year classes are available, but need to be refined.

"Even so, it is apparent that there will be no sudden and large revival of the sardine industry until there are a series of larger year-classes than have recently been produced and until there is an increase in the degree to which the population is available to the fishery. We cannot predict when these events will occur, but there is no evidence to indicate that, sooner or later, they will not occur".

Five reappointments and three new appointments were made at year's end to the California Marine Research Committee by Gov. Goodwin J. Knight.

J. R. Biven, president, Coast Fisheries Division, Quaker Oats Co., Wil-

lington; J. G. Burnette, vice-president, Winged Victory Fish Products Co., San Francisco, and chairman of the committee since 1948; Donald T. Saxby, manager, California Division, and in charge of fishery operations for the California Packing Corp., San Francisco; Gilbert C. Van Camp Sr., president, Van Camp Sea Food Co., Terminal Island; and John V. Morris, counselor and stockholder Star Kist Foods, Inc., Terminal Island, were the reappointments.

W. E. Stewart, director of natural resources department, State Chamber of Commerce, San Francisco; Arthur H. Mendonca, president, F. E. Booth Co., Inc., San Francisco; John Hawk,

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secretary-treasurer, Seafarers' International Union (AFL), San Francisco; and Raymond Cannon, research director, Ocean Fish Protective Association, Long Beach, were the new appointees.

• Southern California sardine fishing was delayed in starting for more than a month in the fall of 1955 for two reasons: (1) no agreement on tonnage price; and (2) the cannery workers' strike, which closed-down Los Angeles-Long Beach sardine and mackerel canneries during October. The Southern California season by California regulation legally opens October 1.

Then came the settlement on price and end of the plant strike. The price at San Pedro was \$47.50 for sardines when fishing began, if the catch during the dark was under 30,000 tons, and this price became effective as of November 7.

With the negotiations concluded on price concluded by the Fishermen's Cooperative Association and individual canners, fishing began at the November dark and proved productive, compared to the meager tonnage in the past few years, but declined during December. The season ended for Southern California net boats, the night of January 31.

Early in December the 30,000-ton maximum was reached and the price of sardines, by agreement of Cooperative and canners, fell to \$40.00 per ton and remained thus through the remainder of the season.

Limits on tonnage to be delivered by individual cannery vessels during the season was on an on-again and off-again basis, but on the whole the season was rated by fishermen as more productive than in 1954. Canners also considered sales of sardines in the domestic and export markets improved over the past year.

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MACKEREL

1955 -California Mackerel Pack - 1955

PACIFIC MACKEREL				MONTH	JACK MACKEREL				All Mackerel Cases
Tons Delivered	Cases 1-lb. Cans	Cases Other Sizes	Total Cases		Tons Delivered	Cases 1-lb. Cans	Cases Other Sizes	Total Cases	
27	730	...	730	January	41	187	...	187	917
444	7,100	...	7,100	February	702	12,872	40	12,912	20,012
934	15,322	...	15,322	March	476	9,316	...	9,316	24,638
39	1,125	...	1,125	April	561	10,524	...	10,524	11,649
496	10,876	...	10,876	May	195	3,756	...	3,756	14,632
677	13,788	...	13,788	June	130	1,807	...	1,807	15,595
1,313	34,945	...	34,945	July	4,110	71,995	...	71,995	106,940
1,754	27,185	...	27,185	August	1,939	33,759	...	33,759	60,944
763	10,730	...	10,730	September	224	5,645	...	5,645	16,375
1,066	21,322	...	21,322	October	803	12,782	...	12,782	34,104
1,206	21,586	...	21,586	November	2,908	64,026	905	64,931	86,517
1,922	37,501	...	37,501	December	3,845	74,998	...	74,998	112,499
10,641	202,210	...	202,210	TOTALS	15,934	301,667	945	302,612	504,822

● **MACKEREL CANNING** in California recovered somewhat in 1955 from the low level of 1954, but remained far below the average of recent years.

This was undoubtedly due in large degree to the California fish cannery

strike which sharply curtailed production during the months of September and October.

Availability of fish, however, was the governing factor, and there can be no question but that the pack would have been substantially larger

if the fishermen could have found fishable schools.

The gain over the previous year came in the Jack mackerel production, the pack of the Pacific species showing a moderate decline from the year before.

California Mackerel Production By Species

Year	PACIFIC MACKEREL			Total Cases All Mackerel	JACK MACKEREL			Year
	Central California	Southern California	Total Pacific Mackerel		Total Jack Mackerel	Southern California	Central California	
1948	7,269	381,732	389,001	971,646	582,645	429,923	152,722	1948
1949	994	506,424	507,418	924,104	416,686	362,977	53,709	1949
1950	4,155	371,055	375,210	1,410,541	1,035,331	707,858*	327,473	1950
1951	5,448	365,956	371,404	1,040,300	668,896	650,274	18,622	1951
1952	2,509	216,011	218,520	1,573,745	1,355,225	1,335,416	19,809	1952
1953	...	71,222	71,222	598,305	527,083	516,839	10,244	1953
1954	14,495	213,452	227,947	383,500	155,553	80,057	75,496	1954

* Includes 1,096 cases from undesignated districts.

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TUNA MARKETS

Downward readjustment of price marked tuna marketing in 1955.

• The year 1955 for the California tuna industry was one of price adjustment downward from the producer level to retail level.

The industry entered 1955 with a much larger-than-usual inventory, and concluded the year with what cannery association officials believed would be only a small reduction in warehoused tuna.

However, the drop in tonnage price of tuna from \$310 to \$270 for Yellowfin, with corresponding decline in other species, agreed upon by the American Tunaboat Association but not by the CIO crews manning purse seine boats, was expected to have some effect on the cost of canning tuna early in 1956, which probably would be reflected in retail prices.

The two-month long cannery workers' strike, which during the Fall affected most canners in San Diego and San Pedro, tended to reduce inventory; but the backlog of tuna held under refrigeration in bait boats and freezer-ships accelerated production as the year ended and tuna canning was at peak just before the holidays.

During 1955 there was considerable variation in the advertised retail price of tuna of the three major packers. In some cases domestic chunk, light meat, was sold for as low as 25c a can—sometimes at four for a dollar. At the beginning of the year advertised price of chunk ranged from 29 to 31c a can.

Among the packers there continued to be stiff competition for control of markets in the strategic population

areas of the country. Some lost ground and others gained.

Japanese tuna-in-brine gave California tuna in oil trouble in the market—one imported label was advertised for as low as 19c for a 7 oz. can, light meat, solid pack.

California Fish Canners Association and individual canners fought a battle during 1955 against imports of tuna-in-brine, with only a 12½ % duty. In particular domestic canned tuna was most severely affected in the institutional field favorite outlet of the four-pound can. Further competition from imported canned tuna came to the industry late in 1955 by the lowering of the tariff on tuna-in-oil.

Competition just as bitter, perhaps, as that from imported canned tuna, came from increasing consumer demand for other types of protein food selling at lowered prices—and this gave the canners further pause.

The industry continued to hammer away at the market: by advertising of the three major canners; by tying-in with various allied food industries during campaigns such as "Summertime is Tuna Time; and National Tuna Week, sponsored by the Tuna Research Foundation.

In addition, continued emphasis was made on improving the quality of canned tuna, symbolized in a three-day meeting in December, concerned with sanitation, quality control of raw fish held under refrigeration; and the fifth annual tuna cutting.

The industry entered 1956 with

prospects of progress and the conviction that it would forge ahead in 1956, given an opportunity to price its product competitively with other protein foods. The emphasis in 1956, judging by the three day meet, would be on quality of product and its advancement. Furthermore, the California industry in 1955 had become aware that the production, canning and merchandising of tuna was fast becoming a world affair and not an operation confined to California fleets and canneries.

• Four northern and central California canneries packed tuna during 1955. Operating in Eureka was the Tom Lazio Fish Co., Inc.; in San Francisco, F. E. Booth Co., Inc., and Washington Packing Corporation; and in Monterey, the Peninsula Packing Co.

An innovation in tuna deliveries was made in Monterey at the Peninsula Packing Co. when tuna clippers came right from the tuna fish grounds to Monterey to deliver their fares. In the past tuna purse seiners have delivered to both F. E. Booth Co., Inc., and Peninsula Packing Co., but not tuna clippers until this year.

No tuna pack figures for northern and central California plants were available for 1955 but in 1954 some 369,962 cases were packed in the area. This compares with a pack figure of 250,385 cases in 1953.

Largest pack item was 139,257 cases of solid pack Albacore in 1954. This compares with 93,544 cases packed in 1953.

AMERICAN CANNED FISH VALUES BY AREAS

YEAR	PACIFIC COAST						States Other than Pacific TOTAL	United States TOTAL
	Alaska	California	Oregon	Washington	TOTAL	% of Nat'l. Total		
1935	\$26,072,966	\$25,252,965	\$ 2,851,987	\$ 4,955,117	\$ 59,133,035	78.8	\$15,860,684	\$ 74,993,719
1936	45,078,945	26,296,129	2,972,959	3,582,880	77,930,913	82.3	16,726,956	94,657,869
1937	45,041,499	30,741,773	4,163,681	5,276,928	85,223,881	81.2	19,713,750	104,937,631
1938	37,059,151	25,232,688	3,638,815	3,762,575	69,693,229	83.5	13,752,660	83,445,889
1939	34,775,988	31,639,354	4,622,664	5,192,077	76,230,083	79.0	20,228,510	96,458,593
1940	31,836,480	36,949,395	5,294,488	3,987,170	78,067,533	82.9	16,046,513	94,114,046
1941	56,453,007	39,830,950	7,704,434	7,130,960	111,119,351	80.1	27,564,806	138,684,157
1942	48,874,227	44,506,354	12,375,323	8,319,559	114,075,463	78.8	30,567,784	144,643,247
1943	58,479,130	46,842,918	7,242,950	2,975,728	115,540,726	81.8	25,615,584	141,156,310
1944	52,072,335	53,653,337	11,720,608	3,706,586	121,152,866	79.5	31,158,318	152,311,184
1945	45,491,662	60,219,179	12,543,619	7,326,616	125,580,976	82.0	27,219,595	152,800,571
1946	55,081,941	85,457,037	12,164,093	18,202,350	170,905,421	75.1	56,724,033	227,629,454
1947	89,135,362	116,493,682	20,626,850	24,949,347	251,205,241	80.9	59,475,179	310,680,420
1948	97,657,187	137,876,592	21,926,969	18,497,700	275,958,448	82.1	60,223,031	336,181,479
1949	82,225,067	119,497,465	13,683,517	23,009,231	238,415,280	80.6	57,088,625	295,503,905
1950	82,828,503	140,251,694	19,250,557	25,370,759	267,701,513	81.3	62,661,340	330,362,853
1951	80,748,052	122,572,382	15,454,209	27,312,377	246,087,020	81.7	55,123,275	301,210,295
1952	77,586,903	124,582,452*	14,284,187	21,362,466	237,816,008	77.7	68,013,190	305,829,198
1953	99,477,956	132,298,470	15,629,708	24,357,778	234,363,912*	76.5	72,515,896	306,873,874
1954	65,107,077	145,247,976	18,386,407**	32,524,805	261,266,265	78.9	69,760,245	331,026,510

* Includes Hawaii.

** Includes Hawaii and Samoa.

Something Like Drama

● Something of drama developed in the canned salmon marketing picture for 1955—a most unlikely place.

It was no drama of great riches and bags of gold, but rather of packers and sellers struggling to make ends meet, and attempting to stretch a scant profit here over a sharp loss there.

It was a drama which saw swift shifts of balance and position—which saw the American trade grasping eagerly at an export opportunity in the spring, and almost as eagerly at foreign supplies in the fall.

But to get into the script:

● The 1954 pack, which constituted the canned salmon industry's stock-in-trade going into the year 1955, had been characterized by scarcity of Reds and Pinks, but with long supplies of Chums and Puget Sockeyes.

Trading in the fall of 1954 was active, cleaning up the available Pinks, plus most of the Reds, and making large inroads on the bumper pack of Chums, using them in place of Pinks.

Thus 1955 opened: stocks nominal and firmly held, generally against allocations, in all items save Puget Sound Sockeyes and Alaska Chums.

The Chums, whose abundance was matched by excellence in quality, proved readily acceptable to the trade as a substitute for Pinks, which were really off the market by the time buyers had placed their pre-Lenten orders very early in 1955. The excellence of the Chum quality in the 1954 pack was no myth, nor did it have its exist-

ence essentially in the minds and imaginations of the salmon sellers. It was *real*, and was manifest in color, fatness and the remarkable proportion of the pack which was put up during the best-quality period of the summer. These Chums were *sharp*. Too bad they're gone. The price was \$16 for first quality summer-pack Chums, despite the large volume available. Fall quality found market at only 50c less.

● "SITUATION" IN SOCKEYES—Sockeyes were something else again. Market for them was soft, and showing some signs of sloppiness as the spring wore along. The surprisingly large pack on Puget Sound in 1954, with little prospect of more than nominal production in 1955, was regarded as "actually the supply for two years" by the more sanguine. Be it said for the bankers, they took a businesslike view of the situation and did not force

liquidation. However, as tax assessment time came along some Sockeye holders showed signs of restlessness.

The time was ripe for the first of the dramatic moves which marked the market of 1955.

From Canada came buying offers for American Sockeyes in volume. They found plenty of takers, for a time at least.

What was behind this business? Canada buying Sockeyes after putting up a big Sockeye pack?

No, it was forward-looking folks who were convinced of two things:

1. Sockeyes at \$16.50 were cheaper than they would be later, after they had been taxed, and after the expected-to-be-light pack of 1955 had been made.

2. The United Kingdom would be in the market again in the fall and would be interested in a substantial quantity of 1954 Fraser River Sockeyes.

The idea caught-on quickly and in no time at all the field was full of buyers, but only after those who opened the bidding had filled their hand. Volume traded for export was on the order of 150,000 cases.

What had been a slightly sloppy situation immediately jelled, as though a double recipe of "Certo" had been stirred-in.

● 1955 SUPPLY SCANT—Drafts for

Pacific Canned Salmon Packs and Values

Packs reduced to basis of full cases of 48 lbs. net. Values calculated from best data available.

Year	Alaska		Washington		Oregon		California		U. S. Total		British Columbia		Grand Total	
	Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value
1939	5,239,211	\$ 35,110,571	478,246	\$ 3,944,000	251,070	\$ 3,640,898	...	...	5,971,527	\$ 42,695,469	1,539,070	\$ 10,449,945	7,510,597	\$ 53,145,414
1940	5,028,378	31,826,451	222,808	2,825,000	297,716	4,129,220	...	...	5,548,902	38,782,681	1,467,227	11,427,923	7,016,129	50,209,908
1941	6,906,503	57,466,702	491,311	6,162,000	399,840	5,925,444	1,125	13,500	7,798,779	69,567,646	2,248,870	18,406,545	10,047,649	87,974,191
1942	5,089,109	48,677,509	366,065	6,909,000	397,331	6,890,162	...	...	5,852,515	62,476,671	1,811,560	20,050,238	7,664,075	82,526,909
1943	5,396,509	58,579,194	149,175	2,309,000	130,707	2,857,246	787	16,000	5,677,158	63,761,440	1,258,221	11,673,469	6,935,379	75,434,909
1944	4,877,796	51,606,544	81,490	1,774,000	159,783	3,445,244	864	17,660	5,119,943	56,843,448	1,097,558	11,479,093	6,217,521	68,322,541
1945	4,338,692	44,528,964	414,258	4,845,000	155,292	3,287,812	2,755	38,000	4,913,335	52,699,776	1,739,311	18,409,962	6,652,646	71,109,738
1946	3,971,109	58,667,561	385,437	13,020,000	206,563	7,165,645	5,034	153,000	4,568,149	79,006,206	1,348,138	17,532,462	5,916,287	96,538,668
1947	4,302,466	91,297,885	957,429	21,420,000	338,852	11,133,690	13,917	513,000	5,612,664	124,364,575	1,505,157	24,900,000	7,117,379	149,264,575
1948	4,014,891	96,528,730	484,102	12,685,858	314,556	10,956,513	11,417	366,095	4,824,966	120,537,196	1,308,137	26,579,000	6,133,103	147,116,196
1949	4,391,591	81,263,168	973,740	17,481,282	158,472	4,665,290	1,113	21,240	5,524,916	103,430,980	1,436,464	27,654,489	6,961,380	131,085,469
1950	3,272,643	81,403,511	670,341	18,285,000	176,063	6,193,000	...	...	4,119,047	105,881,511	1,482,560	30,155,177	5,602,056	138,885,502
1952	3,574,191	76,357,016	749,591	17,122,352	140,565	4,784,421	703	20,292	4,455,022	99,636,808	1,293,435	27,751,435	5,741,490	127,388,243
1953	2,934,667	60,987,334	848,422	18,680,750	127,808	4,063,675	436	15,425	3,911,333	83,747,184	1,821,269	35,060,600	5,732,602	118,807,784
1954	3,094,753	63,356,724	973,491	25,727,689	92,291	3,130,700	2,162	65,431	4,163,147	92,280,544	1,742,736	39,293,176	5,905,883	131,573,720
1955	2,469,746	58,431,365	673,736	16,895,075	140,596	5,078,287	847	27,590	3,284,925	80,432,317	1,406,230	31,644,673	4,691,155	112,076,990

NOTE: Data for current year are from original sources, and are based on origin of fish canned. Data for previous years generally are from official sources, which disregard origin in cases where fish caught in one area are canned in another.

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the British business had barely been banked before reports from Alaska began to take-on a dull, leaden hue — the background for the next act in the market drama.

Production was disappointing, disastrous in some cases. Realists had not looked for much in the way of Reds, but even the gloomiest expected better than they got. Copper River *poor*, after a big year in 1954.

Bristol Bay *bad*, save for Nushagak. Cook Inlet *scant*. Prince William Sound *closed* of course. Only *bright* spot was Kodiak Island.

As the season wore along eyes turned to Southeast Alaska. Surely there would be fish in Southeastern. No. *Another bust*. Few Pinks.

What about Chums? Big year in 1954. Chums had been strong for years. Chums would make it up. No.

Canada, then. The Canadians always have a lot of Chums. Not in 1955. They had Pinks, a good pack, but fewer Chums than ever before.

● **JAPAN SELLS PINKS** — By the time it was evident that the Alaska pack would be the poorest on record the news from the other side of the Pacific was in. The Japanese had a big pack. The United Kingdom was taking the Reds, but the Japanese would have Pinks for sale, and samples were being shipped. Silvers, too, if you're interested.

Most of the Pinks were in halves, and reported offered as low as \$10.50 cif. U.S. ports. The can size posed something of a problem, but the samples looked good and aroused immediate interest.

The American trade looked askance at the offering at first, but as it became evident that the domestic pack of Pinks was certain to be disappointing again, interest in airline schedules began to develop.

Upshot of it all was that the United States buyers purchased in the neighborhood of 250,000 full cases of Jap-

anese canned salmon during the fall months of 1955.

This was the same market which was hustling to sell Sockeyes for export in the spring. Of course, Sockeyes were long, and they won't substitute for Pinks.

In any event, the United States in 1955 took its first substantial parcel of Japanese canned salmon, and the businessmen of Japan marked up a one-year start in the build-up of "historic participation" which they would like to establish in the United States.

● **CHUMS IN FLOP** — Buyers who had weathered tight supply situations in the past by substituting good Chums for Pinks—properly labeled, of course—were in for keen disappointment. The Chum pack was nominal.

Where in 1954 the supply of Chums

INITIAL PRICES FOR CANNED SALMON

(Per case of 48 cans. Prices in dollars and decimals)

YEAR	Chinook Columbia Riv. Fanoy	Sockeye Puget Sound	Red Alaska		King Alaska	Coho — Medium Red		Pink		Chum	
	Halves	Halves	Talls	Halves	Talls	Talls	Halves	Talls	Halves	Talls	Halves
1910	\$4.4	\$4.4	\$5.4	\$4.	\$5.4	\$5.	\$3.2	\$3.2	...	\$3.1	...
1911	5.2	5.2	6.4	4.5	7.2	5.8	4.	4.	\$3.2	3.8	\$3.
1912	5.	5.2	5.6	4.6	5.6	4.6	3.2	2.6	2.2	2.5	2.
1913	5.	4.2	4.6	3.8	4.	3.4	2.8	2.6	2.2	2.2	2.
1914	5.	5.4	5.8	4.4	5.6	4.6	3.3	3.6	2.8	3.4	2.6
1915	5.	5.4	6.	4.6	5.	4.6	3.	3.	2.3	2.8	2.1
1916	5.	5.6	6.	4.8	5.4	5.2	3.6	3.6	3.	3.4	2.7
1917	7.	7.	9.4	6.6	9.	8.	5.4	6.6	4.6	6.4	...
1918	8.	8.	9.4	6.6	9.	9.6 - 9.	6.4	6.6	4.6	7. - 6.4	4.4
1919	8.	10.	13.	9.	12.5	12.	8.	9.	5.6	8.6	5.
1920	10.	12.	13.	9.	12.	8.	6.	6.	4.4	4.6	3.6
1921	8.4	10.	9.4	8.	7.	6.	3.8	4.4	3.2	4.	2.6
1922	13.	10.	9.	7.	7.	5.	4.	4.6	3.2	4.2	2.8
1923	10.	10.	9.	6.6	8.	5.6	4.	5.	3.6	4.8	3.4
1924	8.8	9.	9. - 10.	6. - 7.	8.6 - 8.4	7. - 6.	5.4 - 4.2	5.2 - 5.	3.6	4.8	3.4
1925	8.4	9.4 - 10.	14.	9.	13. - 12.	11. - 10.	7.4 - 7.	5.8 - 5.	4. - 4.4	4.6 - 4.4	3.6 - 3.4
1926	9.4	10.	10.	8.	9.	9.	6.	5.4	4.2	5.	3.6 - 3.2
1927	9.4	11.	12.4	9. - 8.6	11.4 - 10.6	10. - 9.	6.6 - 6.	6. - 5.4	4.6 - 4.4	5.4 - 5.2	3.8
1928	9.8	10.4	9.4	7.4	8.6 - 8.	7.4 - 7.	5.4	6.6	4.4	6.4	4.
1929	10.4 - 10.	10.	10.6	8.	9.	8. - 7.4	5.6 - 5.4	6.	4.4	5.4	4.
1930	10.	8.	12.4	8.	10.6	9.	5.6	4.	3.	3.6	2.8
1931	8.	8.	9.4	6.6	7.	7. - 6.4	4.8 - 4.6	3.4	2.8	3.2	2.6
1932	6.	6. - 5.	5.8 - 5.	4.	4.4	4.	3.2 - 3.	3.4 - 3.	2.4	3. - 2.8	...
1933	7.6 - 7.	7. - 6.6	7. - 6.6	4.8	6.	5.4	...	4.8	3.	4.6	2.8
1934	7.2	5.4	6.8 - 6.4	4.8 - 5.	5.4	5.	4. - 3.8	4.2 - 4.	3.2	4. - 3.8	3.
1935	7.2 - 7.	7.	9.4 - 9.	6.6 - 6.4	8. - 7.	6.6	4.4	4.2 - 4.	3.2	4. - 3.8	3.
1936	8.	7.	8. - 7.6	6.	7.	6.6 - 6.4	4.4	4.	3.4 - 3.	3.7 - 3.6	3. - 2.8
1937	8.4	8.4	10.	6.8	9.	8.	5.	5.	3.4	4.8	3.2
1938	9.2 - 8.4	7.	7.8 - 7.4	5.6	7.6 - 6.8	6.4	5.	4.	3.	3.8 - 3.6	2.8
1939	9.2 - 8.6	8.	9. - 8.6	6.7 - 6.4	8.4	7. - 6.4	5. - 4.8	5.2 - 5.	3.6 - 3.4	4.6	3.2
1940	9.	8.4	9.6	6.6	9.2	7.4	4.8	5.4	3.8	4.8	3.4
1941	10.4	10.	13.6 - 13.4	8.2	12.	...	7.	7.	4.8 - 4.4	6.8	4.6 - 4.2
1942	13.	11.4	15.	10.	...	11.8 - 11.6	8.	8.	5.6	7.6	5. - 5.4
1943	13.	11.4	15.	10.	14.	11.8 - 11.6	8.	8.	5.8	7.6	5. - 5.4
1944	13.	11.4	15.	10.	14.	11.8 - 11.6	8.	8.	5.8	7.6	5. - 5.4
1945	13.	11.4	15.	10.	14.	11.8 - 11.6	8.	8.	5.8	7.6	5. - 5.4
1946	18.5	19.	22. - 20.	16.5 - 13.4	20.	17. - 16.	11.6	12.	8.4	11.6 - 9.4	8.
1947	20. - 19.	22. - 19.	24.5 - 22.6	17.5 - 16.	22. - 21.4	22.	15.4 - 15.	19. - 17.2	13.5 - 11.5	18.5 - 16.5	12.5 - 11.1
1948	23.5 - 22.	22.	27. - 26.	19. - 18.	26. - 24.	25.	17.5 - 15.	23. - 22.	15. - 13.	20. - 22.	13.5 - 12.
1949	20. - 18.	...	26.5 - 25.	16. - 15.	24. - 22.	22. - 21.	12.5	16.	10.	15.	9.5 - 9.
1950	19. - 21.	19. - 20.	28. - 29.	18.	23.	19. - 22.	15.5	22. - 24.	15.	20. - 21.1	12.
1951	21. - 23.	19. - 21.	29. - 31.	18.	26.	25.	15.	21.	12.5	18.	11.
1952	22. - 23.	20. - 19.	27. - 30.	17.5 - 18.	25.	21. 22.	12. - 13.	18. - 20.	12.	16.	9.
1953	20. - 21.	18.5 - 17.5	27.	17.	24.	20.	12.	18.	10.2 - 10.5	14.	8. - 8.5
1954	20. - 21.	18.5 - 16.5	28. - 29.	16. - 18.	25.	23.	13.5	20.	12.5 - 13.	15.	9.
1955	22. - 23.	20. - 21.	32. - 33.	18.5 - 19.7	28.	26.	15.	22. - 23	13.5 - 14.5	18	10. - 10.5

NOTE: The title of this tabulation has been changed from "OPENING PRICES" to "INITIAL PRICES," and the prices of pre-war years - originally quoted per dozen each are converted to the per case basis which is now in general use.

The prices are quoted in dollars and decimals thereof, rather than in dollars and cents; and are based largely on formal "opening prices" announced as such by leading sellers, they are not limited exclusively to such quotations. The

formal "opening prices" of different concerns are often incomplete, and vary so widely that a full presentation of them might be confusing. The purpose of this tabulation is to present comprehensively for each year the earliest prices at which substantial quantities of the pack were sold.

The prices here quoted for the war years are the "ceilings" established by the government. Those for 1946 are the prices announced by the majority of large packers after "de-control."

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SALES AGENTS**

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SARDINES
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OF THE UNIFORM HIGH QUALITY THAT
HAS MADE THE FOOD PRODUCTS SOLD BY
PARROTT & CO. FAMOUS SINCE 1855

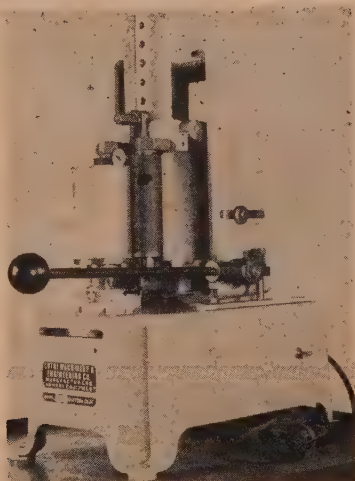
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**Power Driven
ROUND CAN
STRAIGHTENER
for empty cans**



Height: 25"
Width: 10"
Depth: 24"
Weight: 65 lbs.
1/3-hp. Motor, 110-Volts

INTERCHANGEABLE: A wide range of mandrel sizes can be used on one machine to take care of many can sizes. Mandrels are available in sizes from 202 dia. (2-2/16") to 603 dia. (6-3/16") and from 109 high (1-9/16") to 700 high (7").

EASILY CHANGED OVER: A few quick and simple adjustments to change to a different can size in less than 5 minutes.

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Dehn & Co., Inc.

Colman Bldg.

SEATTLE 4, WASH.

Phone: SEneca 2214

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and other

Pacific Coast Products

DOMESTIC — FOREIGN

Cable Address: "DENCO"

Codes: CALPAK — ACME — PRIVATE

1955 -Imports of Canned Bonito- 1955

	Pounds												
Countries	Oct.'54	Nov.'54	Dec.'54	Jan.'55	Feb.	March	April	May	June	July	August	Sept.	Total
Peru	522,000	726,000	698,000	1,548,000	1,549,000	2,362,000	1,258,000	944,000	1,483,000	1,396,000	988,000	700,000	14,174,000
Other Countries	1,000	7,000	43,000	24,000	...	13,000	3,000	1,000	53,000	38,000	16,000	114,000	313,000
TOTAL	523,000	733,000	741,000	1,572,000	1,549,000	2,375,000	1,261,000	945,000	1,536,000	1,434,000	1,004,000	814,000	14,487,000

was flush along the whole range of the species from Ikatan to Tillamook, the following year saw the situation wholly reversed. Along a coastline running through 40° of longitude and 10 of Latitude, Chums were nowhere flush.

With September faded the last ray

of hope that salmon would come from *somewhere* to redeem the situation. It could not be; and Canada in its turn had little to sell to the United States, although its good Pink pack provided material for some dollar business. The answer to a sticky situation appeared

to lie in Japan, and a number of buyers did not hesitate to put business ahead of sentiment.

● **SUPPLY EVAPORATES**—Before the end of 1954 brokers and sales departments reported all their salmon committed, and most of it shipped.

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young enough to try

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DOMESTIC — EXPORT

Established 1912

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BRITISH COLUMBIA CANNED SALMON PRICES

YEAR	SOCKEYE			COHO, SPRING, BLUEBACK			PINK			CHUM	
	1-lb. Talls or Flats 48's	$\frac{1}{2}$ -lb. Flats 96's	$\frac{1}{4}$ -lb. Flats 96's	1-lb. Talls or Flats 48's	$\frac{1}{2}$ -lb. Flats 96's	$\frac{1}{4}$ -lb. Flats 96's	1-lb. Talls or Flats 48's	$\frac{1}{2}$ -lb. Flats 96's	$\frac{1}{4}$ -lb. Flats 96's	1-lb. Talls or Flats 48's	$\frac{1}{2}$ -lb. Flats 96's
1942-4 b	\$16.25	\$17.50	\$10.50	\$11.50	\$12.75	\$ 8.12 $\frac{1}{2}$	\$ 6.25	\$ 7.50	\$ 5.00	\$ 6.25	\$ 7.50
1945-6 b	17.65	18.90	11.20	12.90	14.15	8.82 $\frac{1}{2}$	7.65	8.90	5.70	7.65	8.90
1946 c	18.90	20.30	*****	13.90	15.25	*****	8.30	9.70	****	8.30	9.70
1947	23.50	25.00	15.00	20.00	21.50	13.00	12.50	14.50	*****	12.00	13.50
1948	28.50	30.00	17.50	24.50	26.00	15.25	16.50	18.00	*****	15.00	16.50
1949	31.50	33.00	19.00	23.50	25.00	15.00	16.50	18.00	*****	12.50	14.00
1950	31.50	33.00	19.25	23.50	25.00	15.00	17.50	19.00	12.00	14.00	14.00
1951	36.00	38.00	21.50	27.50	29.00	17.00	19.00	20.50	12.75	16.50	18.00
1952	31.50	33.00	19.00	20.50	22.00	13.50	15.00	16.50	10.75	13.00	14.50
1953	28.50	30.00	17.50	20.50	22.00	13.50	15.00	16.50	10.75	13.00	14.50
1954	30.00	32.00	18.50	22.50	24.00	14.50	16.00	17.50	11.75	14.50	15.50
1955	35.50	37.00	21.50	26.50	28.00	17.00	18.00	19.50	12.75	15.00	16.50

NOTE: - Quotations for 1948 and 1947 packs represent packers' opening prices to the domestic market. Prices received for 1950 sales under the contract to the United Kingdom were considerably less than those quoted. Prices marked 'c' were established by the Canadian government in December, 1946, for sales to the domestic trade, but are also roughly equivalent to those received for export to the United Kingdom, etc. Prices marked 'b' were those paid by the British Ministry of Food in 1945-46 and 1942 to 1944.

In 1954 there was considerable variation in prices paid by major packers, especially for Sockeyes and Chums. Two prices were paid for Chums, according to grade, Fancy selling at \$14.50 and \$15.50, standard at \$13.00 and \$14.50.

• In sharp contrast to conditions prevailing in other recent seasons, Canadian salmon packers found themselves without enough fish to meet market requirements following the harvest of 1955.

The light catch of Sockeyes left the market short of the most favored grades, and customers such as the United Kingdom who usually demand a high proportion of Sockeyes, if and when they can get them, were obliged

to fill the gap in their orders with Pinks and other grades.

All during the late Fall and early winter of 1955-56 the canned salmon market in Canada continued strong and this situation was reflected in the fact that the trade held to one price for export and domestic. Average prices prevailing were: Sockeye talls, \$36.50; halves, \$38 $\frac{1}{2}$; Pink talls, \$18.50; halves, \$20; Chum talls, \$16; halves, \$17.50.

Packers of label brand salmon found it necessary to make allocations of the limited stocks on hand. It was no longer a question of how much demand there would be; it was a problem of supply, and with a total pack of all grades totaling barely 1,400,000 cases few customers were able to get delivery of all they wanted or according to grade specified. In most cases the customers were glad for what they could get.

GREAT NORTHERN BRAND

Ocean Products

CANNED SALMON
CANNED HERRING
CANNED CLAMS
CANNED SARDINES
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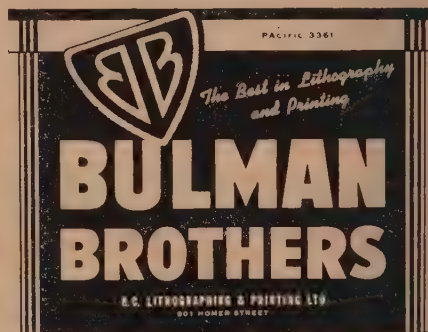
Vancouver, Canada

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Canada

wholesale fish dealers
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Tam-o'-Shanter Brand



901 HOMER STREET
VANCOUVER, B.C.

● **SALVATION IN PINKS**—Had it not been for a bountiful harvest of Pinks, the British Columbia industry would have been in a difficult supply position, because there was nothing else that could be depended on to round out the orders. Coho was in fairly good supply and it was quickly accounted for. Chums are seldom considered as an alternative to Sockeyes or Pinks in the export markets and certainly not in the domestic field, but there was a light pack of Chums, too.

It was for this reason that Canadian packers could not work up much anxiety over the sales that were made or might be made by Soviet Russia or Japan to the traditionally dominant offshore market, the United Kingdom. Their only cause for worry was that this competition might weaken the position of Canadian products in future years of abundant supply if merchandise from other sources became established. Return of the United Kingdom to a private buying basis, after years of bulk purchase, had been one of the brightest features of the export trade in 1954, and in 1955 the industry had an opportunity to capitalize on this opportunity had there been plenty of fish to offer in the grade and volume originally requested.

● **U. K. BUYING**—When it appeared evident that there would be a shortage of some grades for export in 1954-55, two British Columbia companies pro-

tected themselves by purchasing about 150,000 cases of salmon in Puget Sound, and this proved a fortuitous move, as they were able to cash in on the higher prices prevailing in 1955.

Because of the higher prices, the \$6,000,000, more or less, spent by British buyers in the North American market did not go as far as in other years. The United Kingdom had previously indicated readiness to buy more than \$8,000,000 worth of canned salmon on this continent, compared with 1954's \$7,000,000. The British government announced that dollars for the purchase of canned salmon in North America would be allotted in two licenses, the first of which being for half the total 1954 order. The assumption was that the license for the second half would be for the same amount, so that total 1955 purchases would be the same as 1954's. But when the second license was issued, it called for 50% more than the first license—£3,000,000, compared with 1954's total of £5,000,000. Incidentally, the license to purchase in Japan called for expenditure up to £4,700,000. The British purchasing mission in Japan had tried to buy £6,000,000 worth, but was unable to do so, and the increase in the North American license might have been at least partly attributed to that.

● **THE LONG VIEW**—For the long term, British Columbia's canned salmon industry is optimistic regarding

markets and it is confident that production can gradually be built up over the years to meet increasing demand, unless artificial export barriers such as tariffs and exchange restrictions or power dam construction on the Fraser interfere.

A long-range survey undertaken by the industry in 1955 reached the conclusion that by 1980 the annual British Columbia canned salmon pack would be in the neighborhood of 3,000,000 cases, and that the marketing of such a pack would not be difficult if the world's economy continues to improve. It was estimated that Canada alone could readily consume 1,500,000 cases, or 50% more than the peak annual consumption so far. It was estimated that the United Kingdom would have a potential market for about 3,500,000 cases, of which at least 1,000,000 cases could be supplied by British Columbia.

● North American salmon supplies were light as 1956 opened and the United States market, unable to secure its full requirement of Pinks above its own pack, was under the necessity of importing Pinks from Japan.

The fact that the Japanese Pinks were virtually all in halves reacted somewhat against their ready consumer acceptance.

British circles at the end of 1955 indicated probability that the U.K. would be ready to accept larger salmon imports in 1956, if they are available.

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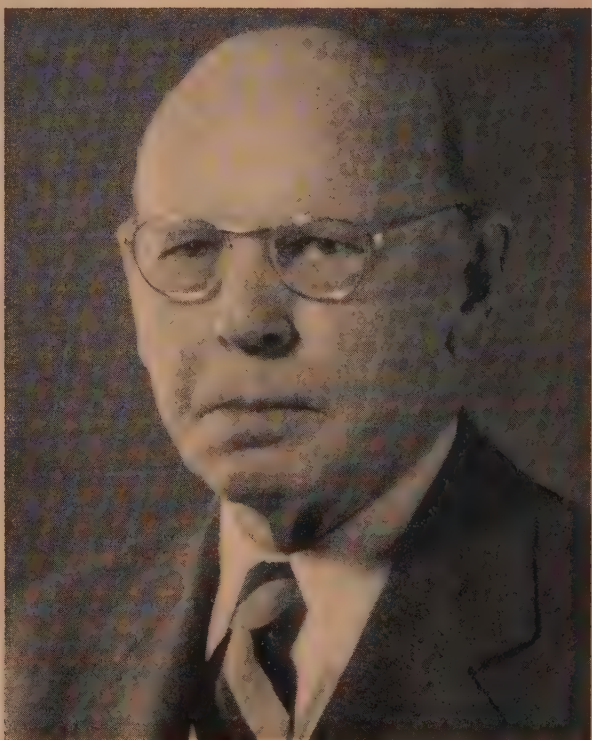
HON. JAMES SINCLAIR of British Columbia who, as Canadian Minister of Fisheries, is the world's only official spokesman for this industry holding ministerial rank in government.



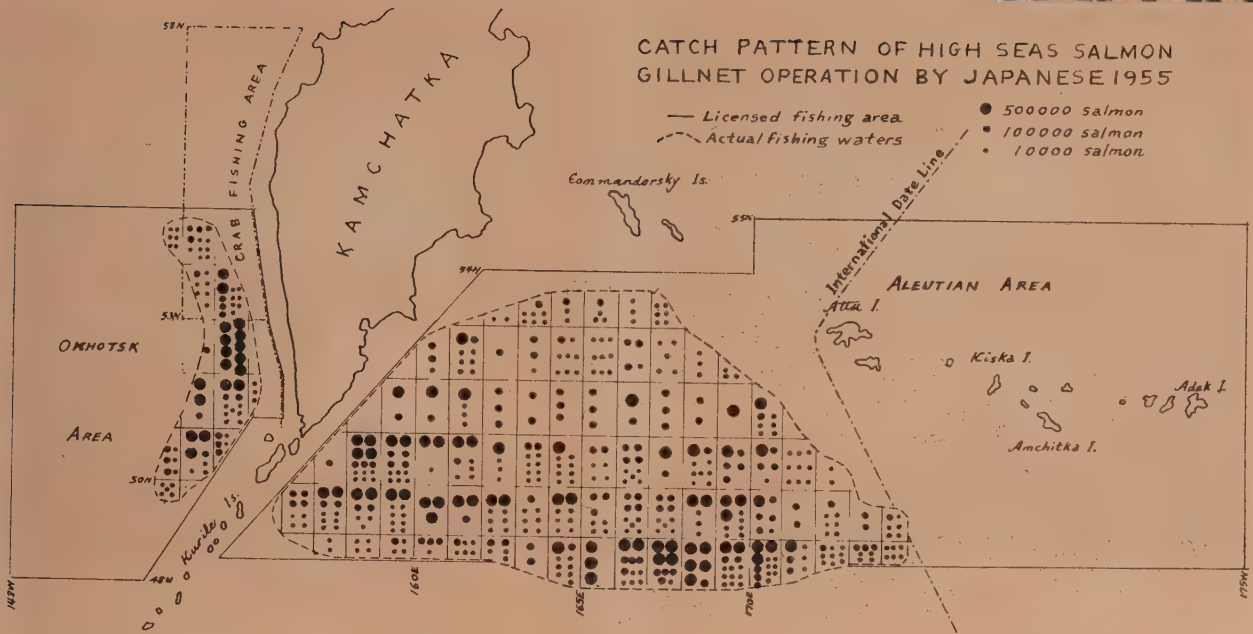
EDWARD W. ALLEN of Seattle, chairman, International North Pacific Fisheries Commission; former commissioner, International Pacific Halibut Commission and International Pacific Salmon Fisheries Commission.



E. E. MURRAY, Seattle, president of the Association of Pacific Fisheries; president, Bristol Bay Packing Co.; executive vice president, Alaska Pacific Salmon Co.



WM. C. MOREHEAD of Terminal Island, president, California Fish Cannery Association; secretary-treasurer, Pan Pacific Fisheries, Inc.



1955 High Seas Salmon Operations Write History

● Japan raised its North Pacific high seas salmon catch to 50,503,000 fish in 1955, up from 20,496,000 in a single year.

To the North Pacific catch must be added 13,537,000 salmon taken by off-shore operations in the Okhotsk Sea; and 6,849,000 salmon taken in the shore-based fisheries of the Japanese home islands.

Total: 70,889,000 salmon.

● The Japanese government at the start of 1955 announced its policy to double the scope of its nationals' North Pacific high seas salmon gillnet fishing

over the operations of the previous season in order that export trade might be substantially increased, and to supply as much protein food as possible

By KENJI SAKAI

for the Japanese people. This doubled licensing was for operation in the Aleutian Area west of 175° W. longitude, north of 48° 30' N. latitude, and off-shore from the territorial waters of Soviet Russia's Kamchatka Peninsula and the Kurile Islands.

A great fleet of 347 "catcher" boats serving 12 motherships equipped with 25 canning lines and freezing facilities engaged in the fishery during season from May to August and took 50,503,-

JAPANESE HIGH SEAS SALMON CATCH

(By area, in numbers of vessels, numbers of fish and percentage of catch)

YEAR	Operation Area	Mother-ship	Catcher* Boats	RED	PINK	CHUM	SILVER	KING	TOTAL	AVERAGE Catch per Catcher Boat
1952	Aleutian	3	57	744,929	703,402	644,453	24,446	1,379	2,118,609	37,168
1953	Aleutian	3	105	1,579,850	3,065,336	2,707,134	339,603	8,253	7,700,176	73,350
1954	Aleutian	7	205	3,816,301 (18.6%)	5,804,010 (28.3%)	9,403,818 (45.9%)	1,398,258 (6.8%)	74,224 (0.4%)	20,496,611 (100%)	99,983
1955	Aleutian	12	347	12,163,948 (24.1%)	16,507,827 (32.7%)	18,573,457 (36.8%)	3,183,813 (6.3%)	74,084 (0.1%)	50,503,129 (100%)	145,542
1955	Okhotsk	2	58	329,879 (2.4%)	9,408,778 (69.5%)	3,404,107 (25.2%)	392,014 (2.9%)	2,398 (0.0%)	13,537,176 (100%)	233,400
TOTAL FOR 1955		14	405	12,493,827	25,916,605	21,575,827	3,575,827	76,482	64,040,305	158,125

*Includes a small number of "investigation ships" each year proportionately to the total number.

Their function is that of scouting, as well as actual fishing.

JAPAN



700-Ton Japanese Tuna Vessel—Typical of the largest, newest and finest fishing vessels of Japan, the steel "Seiju Maru No. 2" is a long-liner built specially to fish the Indian Ocean. Mount Fuji rises above the vessel like the spirit of Japan's ascendant fishing industry.

129 salmon: 12,163,948 Reds, 16,507,827 Pinks, 18,573,457 Chums, 3,183,818 Silvers and 74,224 Kings, as against the last year's total of 20,496,611 salmon by 205 "catcher" boats led by 7 motherships. This was the fourth year of the inception of the North Pacific operations.

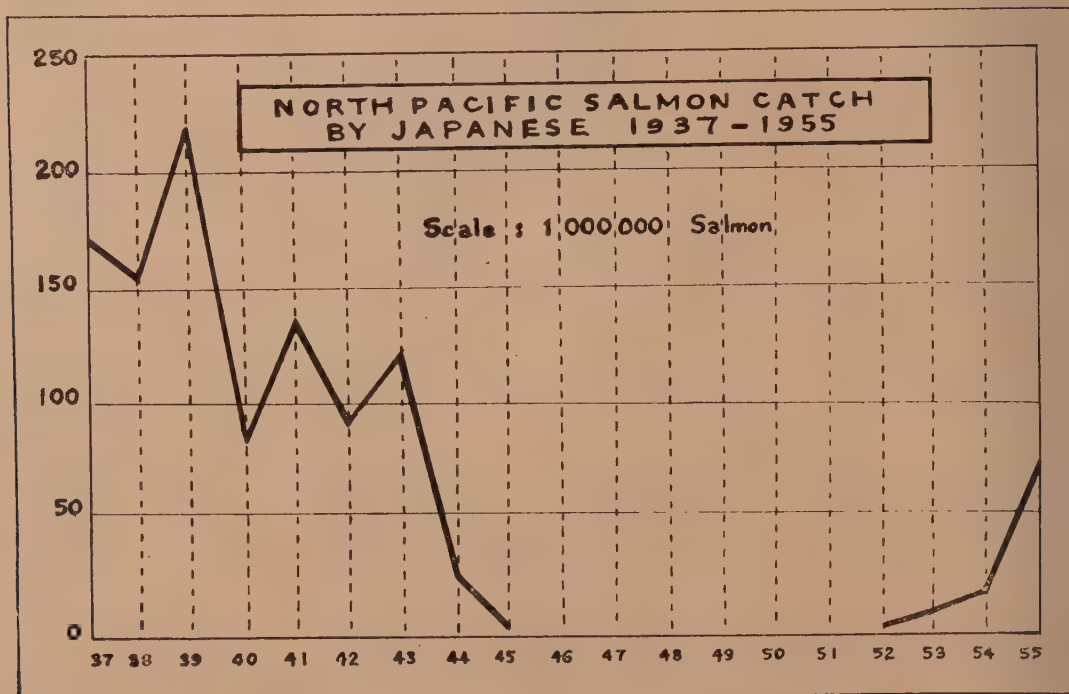
The government also authorized an initial similar operation under rigorous official supervision within the Okhotsk Area off the west coast of Kamchatka, where 58 "catcher" boats led by two motherships engaged in the venture. They captured during season from June to August a total of 13,537,176

salmon: 327,879 Reds, 9,408,778 Pinks, 3,404,107 Chums, 392,014 Silvers and 2,398 Kings by species. Accordingly the catch total of salmon gillnetted under the mothership system in the two areas amounted to 64,040,305 fish, surpassing an original target of 47,296,000 each by 33%.

In addition to the above, more than 1,200 smaller salmon gillnet boats, ranging from 10 to 50 tons, were registered either by Hokkaido or the Minister of Agriculture and Forestry as having based Hokkaido or Honshu. They worked an unusually brisk season from May to mid-August within

a Pacific area south of 48 degrees N. parallel off Kuriles and the east shore of Hokkaido and took 6,849,333 salmon, mostly of Pinks and Chums in approximately equal quantities. Therefore, salmon caught with Japanese gillnets in the memorable year 1955 attained a total of 70,889,638. This was about 46% of the average annual Japanese salmon catch for the five years before the war.

● The large catch of 1955 in the Aleutian area was due mainly to increased quantity of fishing gear, and also to the increased size of the fishing boats.



1955 - JAPANESE CANNED SALMON PACK - 1955

(In cases as indicated, but "Totals" have been adjusted to Full Cases of 48 lbs. net.)

PACKER	CANNERY LOCATION	RED				TIDBIT (Red, etc.)				P R K				CHUM				SILVER				KING		TOTAL
		1-lb. Tails (4 ds)	1-lb. Flats (8 ds)	1-lb. Flats (8 ds)	Total	1-lb. Flats (4 ds)	1-lb. Flats (8 ds)	1-lb. Flats (8 ds)	Total	1-lb. Flats (4 ds)	1-lb. Tails (4 ds)	1-lb. Flats (8 ds)	1-lb. Flats (8 ds)	Total	1-lb. Tails (4 ds)	1-lb. Flats (8 ds)	1-lb. Flats (8 ds)	Total	1-lb. Flats (8 ds)	1-lb. Flats (8 ds)	Total	1-lb. Flats (8 ds)	1-lb. Flats (8 ds)	
Nichiro Gyogyo K. K.	Kyoho Maru, Meisei Maru, Eizan Maru, Eiko Maru(W)	12,088	143,189	32,627	187,904	2,335	1,781	894	2,335	61,416	198,019	37,720	30,286	259,435	193,748	58,648	58,648	1,488	670,851.5	78,906	1,402	78,906	1,488	670,851.5
Nippon Suisan K.K.	Miyajima Maru	125,747	143,169	32,627	299,543	2,410	1,781	894	2,410	19,802	1,407	1,407	1,407	19,802	19,802	19,802	19,802	29,429	213,965.5	281,365	431	281,365	431	213,965.5
Taiyo Gyogyo K. K.	Koyo Maru, Eimin Maru	108,770	108,770	11,062	229,602	5,012	5,012	5,012	15,036	20,932	1,523	40,828	91,465	22,734	22,734	22,734	22,734	32,397	313,503	35,997	431	35,997	431	313,503
Hokkaido Gyogyo K. K.	Terutama Maru	41,595	41,595	41,595	124,785	710	710	710	2,130	32,266	6,267	61,523	15,805	15,805	15,805	15,805	15,805	15,805	15,805	15,805	15,805	15,805	15,805	15,805
Taiyo Reito-Bosen K. K.	Kyokko Maru	39,839	39,839	39,839	119,517	1,511	1,511	1,511	4,533	25,438	25,438	25,438	25,438	25,438	25,438	25,438	25,438	3,039	69,827	3,039	3,039	3,039	3,039	69,827
Hoko Suisan K.K. & Hokoku Suisan K.K.	Nichian Maru	31,705	31,705	31,705	95,115	553	553	553	1,659	24,556	24,556	24,556	24,556	24,556	24,556	24,556	24,556	2,532	64,683	2,532	2,532	2,532	2,532	64,683
Kyokuyo Hoge K.K.	Kyokusei Maru	34,243	34,243	34,243	102,729	403	403	403	1,209	20,449	20,449	20,449	20,449	20,449	20,449	20,449	20,449	3,393	62,908	3,393	3,393	3,393	3,393	62,908
Hakodate Kokai-Gyogyo K.K.	Choko Maru	40,106	40,106	40,106	120,318	572	572	572	1,716	24,415	24,415	24,415	24,415	24,415	24,415	24,415	24,415	19,541	104,247	19,541	19,541	19,541	19,541	104,247
Nippon Reizo K.K.	Land	373	15,790	8,288	16,851	1,742	28	1,760	1,810	1,324	13,166	17,637	17,637	17,637	17,637	17,637	17,637	5,465	30,393.5	5,465	5,465	5,465	5,465	30,393.5
Others (Hokkaido)	Land	267	207	207	681	1,373	1,373	1,373	4,119	31,887	11,191	39,058	39,058	39,058	39,058	39,058	39,058	60	40,736.5	60	60	60	60	40,736.5
TOTAL	Factoryship	12,088	143,189	32,627	187,904	10,627	10,627	10,627	31,881	61,416	404,757	116,021	106,087	618,306	261,759	261,759	261,759	167,873	1,484,753	167,873	167,873	167,873	167,873	1,484,753
	Land	2,483	972	44,891	48,346	120	12,623	727	13,470	6,785	50,645	35,637	208,607	1,880	13,265	6,186	21,131	1,900	6,336	29	298,999.5	29	298,999.5	298,999.5
	GRAND TOTAL	14,511	144,161	77,518	236,250	12,827	23,250	11,354	45,351	68,201	455,372	151,656	126,694	620,154	275,014	275,014	275,014	169,773	1,491,752.5	197,902	197,902	197,902	197,902	1,491,752.5

NOTE: - Source, Japan Export Canned Salmon Manufacturers' Association as of November 15, when practically all packing operation has been completed.

Factoryship marked (W) operated off the west coast of Kamchatka, U.S.S.R., while all other factoryships operated in the "Aleutian Area".

In this area the average size of boat increased from 60 tons the previous year to 70 tons. Moreover the boats set 350 shackles of net on the average — often 400 shackles — as against an annual average of 280 or so in the last season. This caused the Supervising authorities to consider a restriction on the quantity of gear which might be carried by a gillnet boat in the coming season of 1956. In proportion of the catch, Reds were more numerous than the 1954 season, when Chums showed an unusual predominance. Overall catch rate per shackle was 6.30 fish, better than the last season's average of 6.18 fish.

More line-haulers and radio buoys were employed, and ultra-short wave telephone services between mothership and "catcher" boats over a distance of 35 miles contributed to efficiency. Fishermen have become accustomed to using direction-finders, and a number of improved fish-detectors were tried. Use of synthetic floats became common, producing sharp competi-

tion among makers to supply the demand for 1956.

In the Okhotsk area the average size of gillnet boats ran 59.5 tons and each boat seemed to cast 300 shackles of net daily. Fishermen actually grappled against a "mud" of Pink salmon. Indeed, for a period from June forward into July the catch rate per shackle set showed as many as 30 fish, and for the whole season it ran 17. Average per boat catch, accordingly, showed 233,400 fish as against 145,542 fish of the Aleutian area, which itself was roughly 50% more than the average of 1954. The 1955 deadline of the fishing area allowed for the homeland-based small gillnet boats was moved by 1° northward from 27 to 48° N latitude.

● The price of salmon at which the gillnet boat operators were to deliver their catch to mothership operating companies has been agreed at Y 280 for Reds, Y 65 for Pinks, Y 125 for Chums and 210 for Silvers and Kings per fish, but because of the unexpectedly abundant catch and the inclusion therein of a great percentage of smaller sized fish of some species as the season advanced, a slight lump sum allowance of money from the total amount of the proceeds was later effected. (Note: Note official exchange rate is Y 360 to \$1.) Loss of human lives and of vessels proved disastrous in 1955, with result that the supervising authorities are setting

Japanese Canned Salmon Pack, Pre-war vs. Current

(Unit, 1,000 cases of 48 lbs.)

	Red	Tidbit	Pink	Chum	Silver	King	Total
(A) 5-year total, 1937-41	4,125	....	5,201	4	344	11	9,685
(B) Annual average of A	825	....	1,040	1	69	2	1,937
(C) 1955	624	24	676	283	174	3	1,784
Ratio of C to B	0.76	....	0.65	283	2.52	1.50	0.92

Japanese Canned Salmon Packs and Exports

Year	Factory Ships	Land	Total	Exported
1948	.....	1,680	1,680	9,967
1949	.....	38,065	38,065	4,117
1950	.....	67,118	67,118	23,067
1951	.....	195,776	195,776	86,346
1952	.....	97,700	97,700	38,205
1953	38,427	170,262	208,689	80,018
1954	270,343	355,582	625,925	379,799
1955	1,484,753	298,999	1,783,752	1,370,000

NOTE—Source for years prior to 1955, Japan Cannery Association, except for factory ship packs. Data shown in full cases of 48 lbs. net; but a few cases of other sizes on the basis of 48 cans are included. Export volume for 1955 is estimated.

forth decidedly more stringent safety control measures for 1956.

● In all, 1,783,752.5 cases (basis 48 lbs.) of canned salmon were packed in 1955 from fish caught as mentioned above by 13 factory ships and a number of land plants, in addition to other products—frozen, mild-salted and hard-salted—shipped in great quantity from all species of salmon. This canned salmon pack was far above the pre-season estimate and closely approached the prosperous prewar average, as the table below indicates:

Japanese Mothership Operations Authorized for 1956

Operating Firm	Vessel	Operated in 1955 or New	Gross Tons	Equipment		Number Fishing Vessels
				Freezing Sets	Canning Lines	
— Salmon Operations, Aleutian Area —						
Nichiro Gyogyo K.K.	<i>Kyoho Maru</i>	1955	7,080		3	35
Nichiro Gyogyo K.K.	<i>Meisei Maru</i>	1955	5,608	20	1	30
Nichiro Gyogyo K.K.	<i>Eiko Maru</i>	1955	5,483		3	30
Nippon Suisan K.K.	<i>Miyajima Maru</i>	1955	9,598	40	2	35
Nippon Suisan K.K.	<i>Kashima Maru</i>	1955	7,200	36	2	30
Taiyo Gyogyo K.K.	<i>Koyo Maru</i>	1955	7,568	40	2	35
Taiyo Gyogyo K.K.	<i>Einin Maru</i>	1955	7,456	32	2	30
Kyokuyo Hoge K.K.	<i>No. 5 Sansui Maru</i>	1955	11,000	40	2	30
Hokkaido Gyogyo Kosha	<i>Terutama Maru</i> †	1955	5,771		2	30
Taiyo Reito Bosen K.K.	<i>Kyokko Maru</i> *	1955	6,979	10	2	30
Hakodate Kokai Gyogyo K.K.	<i>Choko Maru</i> ‡	1955	6,953		3	30
Hoko Suisan K.K.	<i>Nichian Maru</i>	1955	6,150	15	2	30
Total units				233	26	375‡

— Salmon Operations, Okhotsk Area —						
Nichiro Gyogyo K.K.	<i>Kizan Maru</i>	1955	8,157		3	34
Nichiro Gyogyo K.K.	<i>Toyama Maru</i>	New	5,959		3	29
Nichiro Gyogyo K.K.	<i>Elath Maru</i>	New	8,551		3	34
Hokkaido Gyogyo Kosha	<i>Etorofu Maru</i> ‡	1955	6,714		3	29
Taiyo Gyogyo K.K.	<i>Ten-yo Maru</i>	New	11,224	50	2	34
Hokoku Suisan K. K.	<i>Itsukushima Maru</i> **	New	5,889	32	2	29
Kyokuyo Hoge K.K.	<i>Kyokusei Maru</i>	New	5,532	16	2	24
Total units				98	18	213†

— Crab Operations, Okhotsk Area —						
Nippon Suisan K.K.	<i>Yoko Maru</i>	New	5,788		2	N.A.
Nichiro Gyogyo K.K.	<i>Kaiyo Maru</i>	New	4,963		2	N.A.
Taiyo Gyogyo K.K.	<i>Hakuyo Maru</i>	New	6,098		2	N.A.
Hokuyo Suisan K.K.	<i>Shiranesan Maru</i>	New	5,736		2	N.A.

— Crab Operations, West Bering Sea Area —						
Nippon Suisan K.K.	<i>Matsuhisa Maru</i>	New	5,886		2	N.A.

NOTE—Capacity of a freezing "set" is variable, ranging from 2 tons to more than 3 tons. "N.A.," not available at presstime.
 §Will be member of the Taiyo Gyogyo fleet group. **Will be member of the Nippon Suisan fleet group.
 †Includes 28 "investigation ships". *Will be member of the Nichiro Gyogyo fleet group.
 ‡Includes 60 "investigation ships".

● Now as to compare the present salmon catch by Japanese with the average of former years:

In pre-war years Japanese began taking salmon by gillnet boats under mothership system off the east coast of Kamchatka, though in a narrower area than they are doing now in the "Aleutian" area. North Kurile islands were Japanese territory, from which also a great number of gillnet boats operated widely in adjacent waters. By virtue of fishery convention negotiated with Tzarist Russia, Japanese leased a number of salmon and crab fishing "lots" along the whole length of the Maritime Province of Russia, with Kamchatka at its center. There large salmon traps had been operated, and there were also numerous traps

operated in the north Kuriles, mainly for Chums and Pinks.

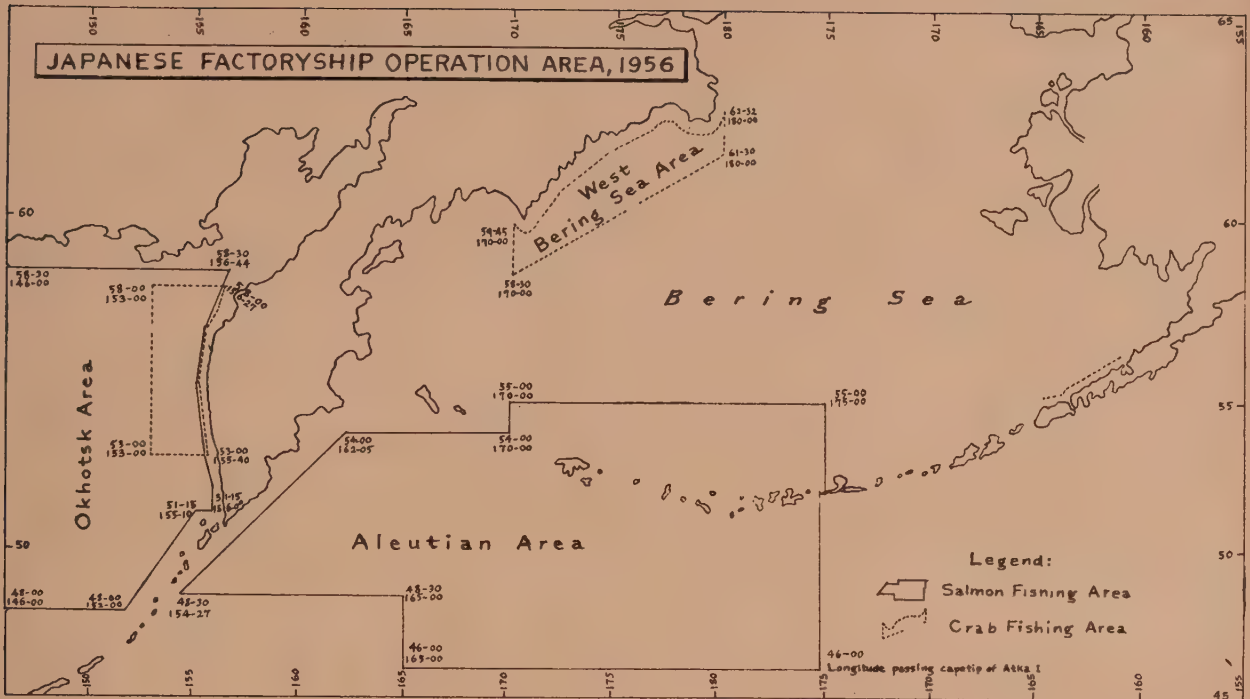
Differences in fishing gear and areas should be given consideration in examining the following table, which compares the 1955 catch by species with that of pre-war years, showing that the post-war peak catch of 1955 was only 46% of the pre-war five-year average.

Japanese Salmon Catch, Pre-war vs. Current (Unit, 1,000 fish)						
	Red	Pink	Chum	Silver	King	Total
(A) 5-year total, 1937-41	65,861	565,190	128,716	8,328	500	768,595
(B) Annual average of A	13,172	113,038	25,743	1,666	100	153,719
(C) 1955	12,494	29,342	25,401	3,576	76	70,889
Ratio of C to B	0.95	0.26	0.99	2.15	0.76	0.46

Japanese domestic demand for canned salmon has greatly increased in recent years. Most of the packs, how-

ever, have been intended for export. With a pre-season assumption that the United Kingdom should allocate at least 6 million Pounds Sterling for purchase of Japanese canned salmon, and with sudden appearance of United States demand for Pink salmon, all the available export items of the Japanese pack appeared committed when packing was still going on in August.

But settlement of government negotiation regarding trade between England and Japan was delayed for



months until late in the fall, when allocation of only 4,720,000 Pounds was realized. This necessitated that shippers rearrange some of their commitments, which was done rather smoothly on the basis of steady time-of-writing fob. prices of \$30 for Red, \$24 for Silver, \$16.50 for Pink and \$15 for Chum per full case of 48 lbs.

Normal outlets of Japanese canned salmon of late had been the United Kingdom, Ireland, Australia and some European countries. To this list the United States was added in 1955.

An interesting observation in this connection was made at time of writing by a representative of one of the leading trading companies of Japan. He felt that, if Japanese canned salmon trade with the United States should prove possible in the future, it would be advantageous for Japanese shippers to have established liaison with American packers or their authorized primary market agencies. It was his feeling that under such conditions business would move more smoothly than where dealing is through middlemen or consignment agents without effective distributing organizations.

● Japan's canned salmon production from all sources may reach 2,700,000 full cases in 1956, in the view of authorities in that country.

Such a figure of course includes operations in the Okhotsk Sea, west of Kamchatka, where 7 floating can-

neries and their satellite fleets comprising 213 fishing vessels will be active. Also included are the salmon operations based on share canneries in the home islands of Japan.

The North Pacific high seas operations in 1956 are expected to be exactly the same in scope—and in actual floating canneries engaged—as in 1954, with the same number of fishing vessels.

Some possible curtailment in these operations is indicated by the fact that in the North Pacific area fishing vessels are being limited to a maximum of 400 shackles of gillnet for the entire season. This quota will be 300 shackles in the Okhotsk Sea.

Moreover, it appears that the Japanese government is prepared to impose mesh size restrictions this year, although at presstime the specifications had not been announced.

(Editor's Note—Among the topics discussed with the Japanese by the American delegation to the International North Pacific Fisheries Commission meeting in Tokyo in November were the advisability of restraining further development of the North Pacific fishery until origin and distribution of the salmon could be determined; and also the possible advantages in mesh-size limitations which would tend to permit escape-ment of immature salmon.)

● Japanese authorities expect that the pre-war canned salmon peak of 2,400,000 cases may be exceeded by their industry in the coming year, with

a pack of as much as 2,700,000 cases considered possible of attainment. This is in spite of the fact that they do not anticipate an Okhotsk Pink salmon run comparable with the great abundance of Pinks in those waters in 1955.

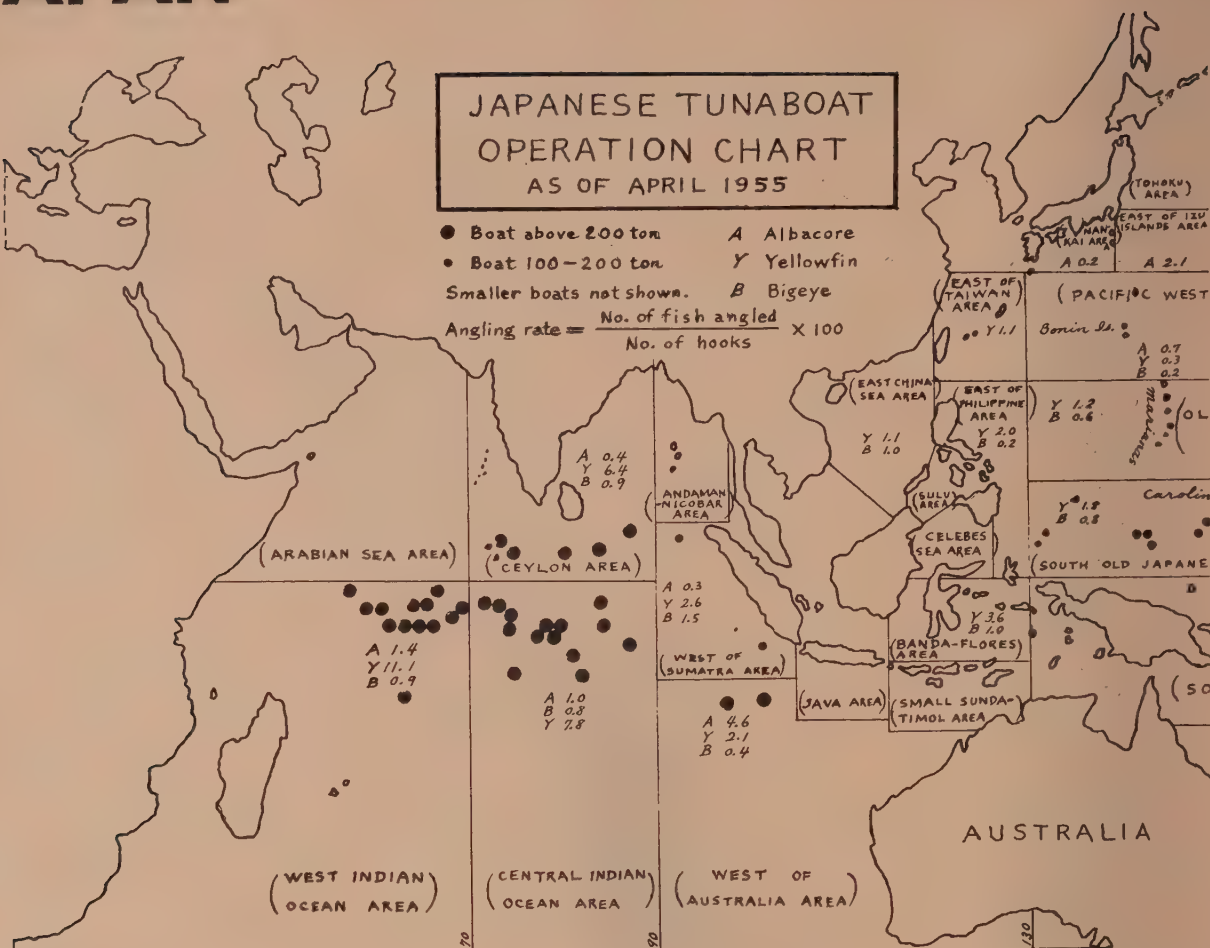
In order to provide a measure of technical, fiscal and distributional support for some of the smaller companies engaged in the expensive and risky high seas operations, the Japanese government has arranged a grouping for 1956 which will bring five of the floaters operated by smaller companies into membership in the fleet groups of the three largest concerns.

Strict safety measures are provided in the new regulations for high seas fishing by the Japanese fleet, including the cannery ships themselves. Rigging and equipment provisions are aimed at reduction of accidents and loss of life, which was extremely heavy in 1955.

● According to official statistics for latest years, tuna and tuna-like fishes caught with all kinds of gear—hook-and-line, long-line, etc.—in all types of operation—coastwise and pelagic; by self navigation vessels and by vessels of all sizes and kinds active in the Japanese fisheries for oceanic species of this type, including the great clipper and longline craft, and also those fishing for Skipjack with bait, as well as the smaller craft, and also those special vessels dependent upon factoryships—and landed in Japan were

JAPANESE TUNABOAT OPERATION CHART AS OF APRIL 1955

- Boat above 200 ton A Albacore
 - Boat 100-200 ton Y Yellowfin
 - Smaller boats not shown. B Bigeye
- $$\text{Angling rate} = \frac{\text{No. of fish angled}}{\text{No. of hooks}} \times 100$$



as follows:

	Landing in 1953 Tons	Landing in 1954 Tons
Yellowfin	39,867	56,929
Albacore	57,737	61,537
Bigeye	32,396	28,471
Bluefin	19,537	21,812
Skipjack	80,775	106,896
Bonito	17,308	22,892
Striped Marlin	4,350	11,008
Broadbill Swordfish	10,063	11,200
Black Marlin*	17,575	20,217
Total	279,608	340,962

*Includes some white marlin, etc. In this table no sharks are included. In 1948 the grand total was 79,914 tons.

Of the total tonnage caught and landed 47% had been taken with hook and line, 40% with longline and 13% with other gear. Vessels engaged in the capture of this tonnage of fish ranged in size from tiny motorless crafts up to most modern super-clippers of more than 500 gross tons. Almost all Skipjack are caught with pole and line, and it is noteworthy that far more Albacore are caught with pole and line than with longline hooks.

The totals include fish caught in

the mid-Pacific around Fiji and the New Hebrides by motherships and their dependent catcher boats. In 1955 two motherships were operated—*Ten-yo Maru*, 11,00 ton, and *Koyo Maru*, 7,400-ton, both of Taiyo Gyogyo K.K. *Koyo Maru* is a new-comer, which had been designed and built for 1955 North Pacific high seas salmon operations, and in the fall seasons ventured in the mid-Pacific with a great fleet of 50 tuna catcher boats, marking the most extensive operation of this type yet undertaken. As against 15,689 tons taken in 1954 by six motherships, an estimated total of 8,750 tons of tuna and associated fishes was taken in 1955.

- If a short survey be made of ship building, addition of *Umitaka Maru*, 1,387 tons, a training and research ship of Tokyo University of Fisheries, was the most outstanding event of 1955. She has not only drift net and longline fishing equipment, but a stern-trawling system—the first appearance of this rig in Japan. On her maiden voyage in the Pacific in September she found a previously un-

known bank of considerable area and unusual shallowness by test use of a new fish-detector just developed.

In the official fiscal year ending March, 1955, aside from smaller boats, a total of 42 tuna fishing vessels (including so-called "skipjack boats") of over 200 gross tons had been built. They included a number of super-clippers such as the *No. 2 Seiju Maru*. She is 168' long and measures 693 tons gross—a masterpiece of Kanasashi Dockyard of Shimizu. This ship is powered with a 1,150-hp diesel engine, super-charged. She carries a crew of 40 to the Indian Ocean and Arabian Sea.

In the eight months from the end of March through November, 1955, 23 tuna vessels above 200 tons had been added to the fleet; while shipyard contracts indicated 10 more would be completed by the end of March, 1956.

- In 1955 for the fourth year Japanese whalers operated in the North Pacific ocean along the Aleutians. The newly outfitted factoryship *Kyokuyo Maru*, 11,448-ton, of Kyo-kuyo Hoge K.K. and Taiyo Gyogyo K.K.'s *Kinjo Maru*, 11,781-tons, en-



gaged, but the latter was authorized to kill only Sperm whales. A distinct feature of Japanese whaling is utilization of meat and blubber for human consumption, and from this years operation in the North Pacific 13,269 metric tons of this protein food was brought to Japan, variously frozen, iced and salted.

Bering Sea Trawling by Japanese			
Year	ship	Boat	Catches (Unit: ton)
1954	2	14	13,551
1955	2	8	8,500

● This was the second year that Japanese operated factoryship-type trawl fisheries in Alaskan waters of Bering Sea, although as in 1954 bigger sized trawlers, *Asama Maru* and *Ikoma*

Maru, both 1,000-tons, of Nippon Suisan K.K. operated independently in early spring. In both years salmon factoryships *Miyajima Maru*, 8,964-ton of Nippon Suisan K.K. and *Einin Maru*, 7,456-ton, of Taiyo Gyogyo K.K., shifted into this trawl fishery toward the fall. Practically all the fish trawled were flatfish, which were carried home frozen, iced and salted. This 1955 total of approximately 8,500 tons was much smaller than the 1954 catch of 13,551 tons.

● Japanese canned crab production gained considerably in 1955 due to resumption of operation of crab factoryships in the Okhotsk Sea and to energetically increased production of

"Hairy" crab in Hokkaido. As against 458,827 cases (basis 24 lbs. net) of 1954, a preliminary total of 741,214 cases has been estimated for 1955.

Tokei Maru, 4999 tons, went over to Alaskan waters of Bering Sea for her third season in quest of crab. The catching operation in 1955 was limited to tangelnets, use of trawl nets having been abandoned by the Japanese in the belief that this action serves the cause of conservation by protecting spawn on the bottom. Packing of 8,000 cases of "Zuwai" crab had been planned, and after completing a pack of 59,850 cases of King crab at the end of July the ship moved a bit westward to where "Zuwai" crabs had been thought to abound, but it was

Japanese Mid-Pacific Mothership Tuna Operations

YEAR	Factory-ship	Catcher Boat	CATCHES (Unit, ton)						
			Yellowfin	Albacore	Bigeye	Bluefin	Skipjack	Others	TOTAL
1950	3	44	4,140	49	581	1	12	2,416	7,199
1951	6	88	5,473	138	2,702	.2	19	4,069	12,403
1952	2	38	4,468	79	598	7	30	2,067	7,249
1953	2	37	4,830	323	831	7	12	3,031	9,034
1954	6	122	4,317	3,950	1,332	687	16	5,387	15,689
1955	2	85	*	*	*	*	*	*	8,750 **

"Others" include Broad-bill swordfish, Black marlin, White marlin, Sharks, Sailfish, Striped marlin, etc.
Source: Ministry of Agriculture and Forestry, Statistics and Survey Division.

** Estimate * Not identified as yet.

JAPANESE CANNED CRAB PRODUCTION AND EXPORT

(In Cases of 24 lbs. net)

YEAR	PACK					EXPORT		
	KING CRAB			OTHER CRABS	Total	King Crab	Other Crabs	Total
	Ocean	Land	Total					
1948	...	17,712	17,712	2,381	20,293	15,939	980	16,919
1949	...	34,639	34,639	1,607	36,246	46,266	7,258	53,524
1950	...	108,487	108,487	20,524	129,011	89,544	14,995	104,539
1951	...	139,397	139,397	55,209	194,606	83,329	19,524	102,853
1952	...	98,116	98,116	28,149	126,265	85,236	26,256	111,492
1953	58,240	140,178	198,418	71,970	270,388	156,699	47,318	204,017
1954	59,850	85,063	144,913	313,914	458,827	108,456	211,855	320,311
1955	206,419	172,000	378,419	362,795	741,214	180,000	260,000	440,000

NOTE: - Source, Japan Cannery Association, except for 1955, where figures are preliminary and subject to correction.

then found that this species of crab had already been dispersed, due to an unusual warm current. Therefore the packing was wound up at the middle of August after filling only 2840 cases of this variety. To pack a case, 110.3 Zuwai crabs were needed.

In the Okhotsk area two factoryships produced 146,569 cases of King crab. To pack a case of cans, 34 Okhotsk King crabs were required. They were small, but well matured. In the case of the *Kokei Maru*, 18.9 King crabs sufficed for a case in the Bering Sea, following the 1954 record of 17.7 crabs-per-case.

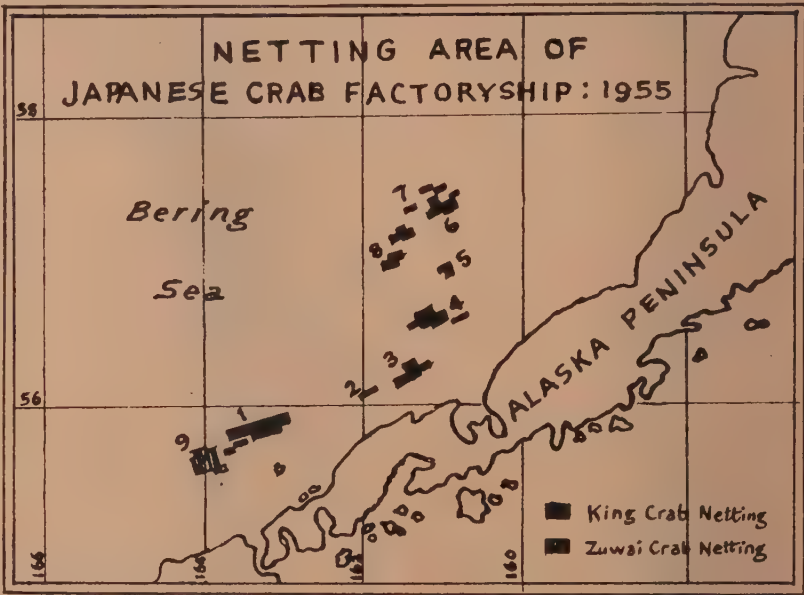
In mid-season the packers' association and the joint sales company was concerned over the increasing stock of Hokkaido "Hairy" crab, but Peabody & Co. of England put a good-sized order under a consignment system, which relieved the situation greatly. Domestic demand for crab, covering all species and grades, has also steadily advanced and as a whole the future of trade is viewed with optimism. The opening price announced in April, 1955, of \$24 for King Crab and \$12.50 for Hairy crab (fob. unlabeled, 48 halves) well maintained throughout the year.

● Only one Japanese floating crab cannery will be permitted to operate in the Bristol Bay area in 1956—continuing the same rate of exploitation

as in recent years; but the Okhotsk operations will be doubled to four; and Nippon Suisan's crab canneryship *Matsuhisa Maru* will be permitted to operate in west Bering Sea, off-shore from Kamchatka, in waters which the Japanese have not fished for two decades. This area runs from Oliutor-

called "Abura", in addition to the King crab.

Japanese crab industry sources predict that the total pack of King crab secured by that country's operations in 1956 will be around 420,000 cases, basis of 48 half-pound cans.



sky Cape through the estuary of the Navalin River, and was the scene of Japanese crab fishing operations in the period from 1927 through 1937.

The banks of this district are said to yield a different species of crab,

● In the year 1955 formation was completed of all the manufacturers' associations in the field of marine products for export, pursuant to the "Law Regarding the Promotion of Industries Engaged in Export Marine Products", enacted in 1954. This law was not intended to promote volume of production, but was aimed at stabilization of foreign trade in the respective marine products. All these associations, with or without a joint selling agency, began to contribute to the objective by fixing the season's target of production in advance. This is determined in harmony with the international situation, and the prospect of export prices.

Early in April the Fishery Agency announced a long-range policy so that

Japanese Canned Crab Pack-1955

(In cases of 24 lbs. net)

CANNERY LOCATION	KING CRAB	OTHER CRABS				TOTAL
		Zuwai	Hairy	Hanasaki	Total	
Factoryship:						
Tokei Maru	59,850	2,840	...	...	2,840	
Yoko Maru (W)	73,500	...	...	...	...	
Hakuyo Maru (W)	73,069	...	...	...	...	
TOTAL	206,419	2,840	...	...	...	209,259
Land:	172,000	2,000	352,955	5,000	359,955	531,955
GRAND TOTAL	378,419	4,840	352,955	5,000	362,795	741,214

NOTE: Packs of "Factoryship" and that of Hokkaido "Hairy" crab have been completed. Others show current figure as of end of November plus estimate up to end of the year. Factoryships marked (W) operated in Okhotsk Sea off the west coast of Kamchatka while Tokei Maru operated in Bering Sea close to Alaska.

Aleutian Area Whaling by Japanese

YEAR	Factory-ship	Catcher Boat	WHALES CAUGHT						PRODUCTS (Unit, metric ton)		
			Blue	Fin	Humpback	Sei	Sperm	Total	Meat, Skin	Fin, Whale Oil	Sperm Whale Oil
1952	1	4	55	213	37	14	--	319	4,054	2,313	---
1953	1	4	90	470	42	98	--	700	7,320	4,951	---
1954	2	10	145	1,316	136	129	490	2,216	15,389	13,847	4,060
1955	2	14	70	1,360	117	21	1,084	2,652	13,269	10,882	8,144

three types of Japanese tuna fishing—self-navigation, mothership-sponsored and foreign-based—might harmoniously be administered in light of the international situation. Immediate restraint was laid against further expansion of factory-ship operation. A specific regulation that had long facilitated building of new tuna boats was rescinded. Later in the 1955 summer, in view of a great controversy met with trading of tuna into the United States, an overall national Tuna Export Planning Conference was organized.

● Second annual meeting of the International North Pacific Fisheries Commission was held in Tokyo late in 1955, and shortly following this meeting the Japanese government announced that authorized high seas expeditions to the North Pacific area in 1956 would be held to the same number and extent as in 1955, although there would be five more mothership fleets in the Okhotsk Sea for salmon. Crab operations in the Alaska side of Bering Sea would again be limited to one factoryship; but a similar operation would be permitted on the Asian side of the Bering.

Crab fleets operating in the Okhotsk Sea in 1956 will be raised to four.

Japan Fisheries Directory

● Japanese fishery agencies and associations, their addresses and principal officers as of Jan. 1, 1956, were:
GENERAL—

Fishery Agency, Ministry of Agriculture and Forestry, Kasumigaseki, Chiyoda-ku, Tokyo.—Minister Ichiro Kono; Director Tomonosuke Shiomi.

Japan Fishery Society, 626 Marunouchi Bldg., Marunouchi, Chiyoda-ku, Tokyo.—President Tsunenjiro Hiratsuka.

VESSEL OWNERS—

Federation of Japan Tuna and Bonito Fisheries Cooperative Associations, 2-3 Yesu, Chuo-ku, Tokyo.—President Toshimaru Yokoyama.

OPERATORS—

Japan Cannery Association, 567 Marunouchi Bldg., Marunouchi, Chiyoda-ku, Tokyo.—President Tomohachi Ueta.

Japan Canned Food Exporters Association, 795 Marunouchi Bldg., Marunouchi, Chiyoda-ku, Tokyo.—Director-in-Chief Takeshi Aizawa.

Japan Frozen Food Exporters Association, Kohan Bldg., 3-3 Kasumigaseki, Chiyoda-ku, Tokyo.—Director-in-Chief Kenkichi Nakabe.

Japan Export Frozen Aquatic Product Manufacturers Association, Kohan Bldg., 3-3 Kasumigaseki, Chiyoda-ku, Tokyo.—Director-in-Chief Kenkichi Nakabe.

Japan Export Canned Salmon Manufacturers Association, 566 Marunouchi Bldg., Marunouchi, Chiyoda-ku, Tokyo.—Director-in-Chief Tsunjiro Hiratsuka.

Japan Export Canned Crab Manufacturers Association, Tokyo Bldg., Marunouchi, Chiyoda-ku, Tokyo.—Director-in-Chief Kyuhei Suzuki.

Japan Export Canned Tuna Manufacturers Association, Kokubu Bldg., 1-2 Nihombashi-Tori, Chuo-ku, Tokyo.—Director-in-Chief Tomohachi Ueta.

Japan Export Canned Sardine Manufacturers Association, 776 Marunouchi Bldg., Marunouchi, Chiyoda-ku, Tokyo.—Director-in-Chief Ben-ichi Tamura.

Japan Export Canned Sauri Manufacturers Association, Kokubu Bldg., 1-2 Nihombashi-Tori, Chuo-ku, Tokyo.—Director-in-Chief Wasaburo Nemoto.



Three-Nation Fishery Conference, the 1955 meeting of the International North Pacific Fisheries Commission in Tokyo is shown here in an informal staff photograph by *Pacific Fisherman*. On the left, the Japan delegation, with Canada opposite and the United States in the foreground.

NORTH PACIFIC ALBACORE TUNA LANDINGS

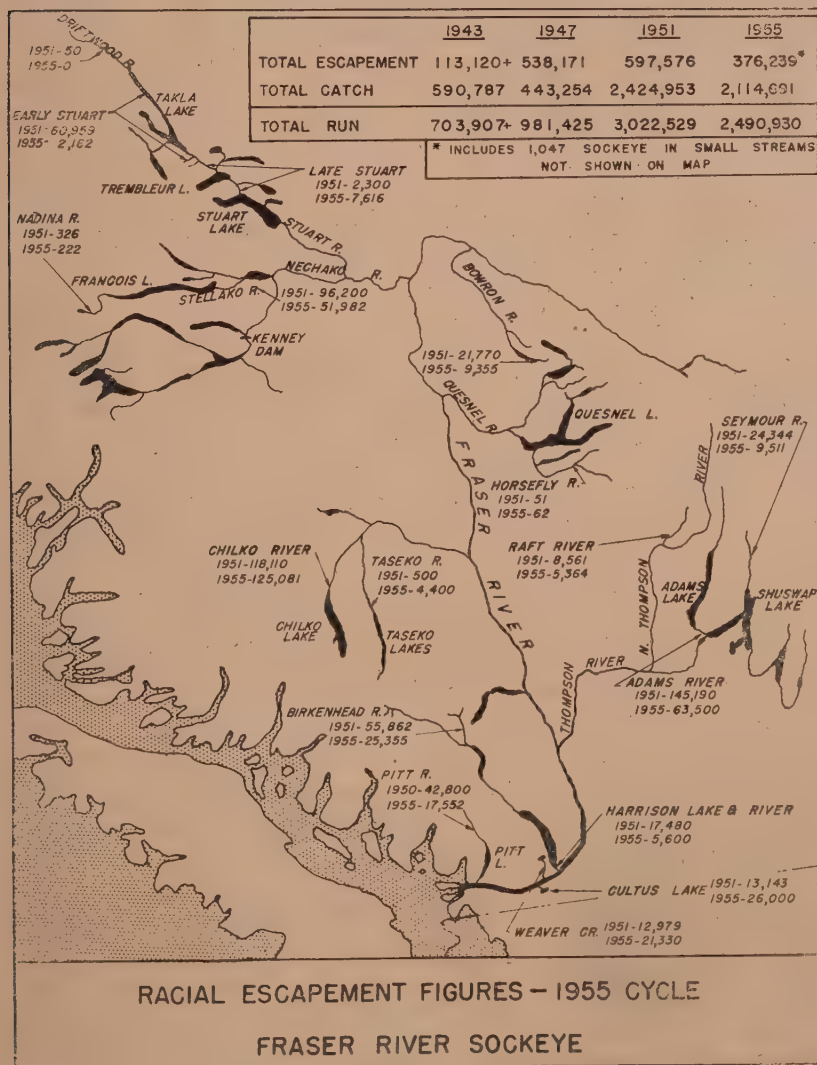
(Pounds) OREGON			YEAR	(Pounds) WASHINGTON					(Pounds) Combined Oregon and Washington Totals
Columbia River	South of Columbia	Oregon TOTAL		Puget Sound	Grays Harbor	Willapa Harbor	Columbia River	Washington State, TOTAL	
975,332	612,585	1,587,917	1944						
6,288,455	2,690,529	8,978,984	July	34,686	741,058	3,347	247,912	1,027,003	2,614,920
7,708,799	1,069,649	8,778,448	August	141,553	4,683,789	68,714	660,234	5,554,290	14,533,274
3,014,988	58,367	3,073,355	September	279,354	3,536,677	161,052	125,037	4,102,120	12,880,568
			October	206,906	786,177	.....	14,355	1,007,438	4,080,793
17,987,574	4,431,130	22,418,704	1944 TOTALS	662,499	9,747,701	233,113	1,047,538	11,690,851	34,109,555
			1945						
			June	.....	42	.....	6,730	6,772	6,772
1,147,222	306,909	1,454,131	July	119,847	1,850,105	21,572	196,118	2,187,642	3,641,773
6,290,075	1,612,425	7,902,500	August	92,797	3,009,811	75,900	335,131	3,513,639	11,416,139
2,327,060	262,702	2,589,762	September	28,130	140,779	28,809	9,608	207,126	2,796,888
231,978	.....	231,978	October	104,491	45,862	517	.....	150,890	382,868
.....	.....	.....	November	842	44	.....	.....	886	886
9,996,335	2,182,036	12,178,371	1945 TOTALS	346,107	5,046,663	126,598	547,587	6,066,955	18,245,326
			1946						
323,331	70,559	393,899	July	172	289,029	23,505	46,995	359,701	753,591
1,741,573	629,466	2,371,039	August	24,675	778,484	33,936	148,526	985,621	3,356,660
1,155,319	30,556	1,185,875	September	165,491	624,818	.....	1,743	792,052	1,977,927
3,220,223	730,581	3,950,804	1946 TOTALS	190,338	1,692,331	57,441	197,264	2,137,374	6,088,178
			1947						
673,647	362,169	1,035,816	July	45,505	1,037,929	43,786	140,469	1,267,689	2,303,505
2,027,945	584,636	2,612,581	August	177,831	2,153,029	92,529	260,545	2,683,934	5,296,515
2,092,618	2,304,774	4,397,392	September	8,563	65,899	10,785	.....	85,247	4,482,639
817,813	310,021	1,127,834	October	25,480	32,898	.....	.....	58,378	1,186,212
5,612,023	3,561,600	9,173,623	1947 TOTALS	257,379	3,289,755	147,100	401,014	4,095,248	13,268,871
			1948						
1,990,811	652,747	2,643,558	July	62,312	1,578,549	58,561	162,821	1,862,243	4,505,801
2,723,713	962,938	3,686,651	August	390,672	3,318,286	123,892	348,561	4,181,411	7,868,062
932,365	422,249	1,354,614	September	169,900	116,808	61,622	.....	348,530	1,703,144
33,053	124,329	157,382	October	14,938	36,521	6,890	.....	58,349	215,731
5,679,942	2,162,263	7,842,205	1948 TOTALS	637,822	5,050,164	251,165	511,382	6,450,533	14,292,738
			1949						
526,928	104,676	631,604	July	31,968	654,685	32,382	51,073	770,108	1,401,712
1,625,236	519,676	2,144,912	August	825,487	2,174,227	79,840	93,094	3,172,648	5,317,560
1,301,185	923,260	2,224,445	September	6,860	287,086	.....	2,507	296,453	2,520,998
1,073,558	224,787	1,298,345	October	75,601	115,196	.....	.....	190,797	1,489,042
26,273	1,361	27,634	November	3,895	.....	.....	.....	3,895	31,529
4,553,180	1,773,760	6,326,940	1949 TOTALS	943,811	3,231,194	112,222	146,674	4,433,901	10,760,841
			1950						
1,430,466	233,420	1,663,886	July	152,213	1,506,955	130,851	365,227	2,155,246	3,819,132
1,114,353	787,569	1,901,922	August	317,068	1,563,558	78,253	108,101	2,066,980	3,967,902
254,458	241,514	495,972	September	34,672	7,293	.....	.....	41,965	537,937
1,046,105	171,781	1,217,886	October	.....	22,084	.....	.....	22,084	1,239,970
210,851	.....	210,851	November	.....	.....	.....	.....	.....	210,851
4,056,233	1,434,284	5,490,517	1950 TOTALS	503,953	3,099,890	209,104	473,328	4,286,275	9,776,792
			1951						
25,527	15,656	41,183	July	.....	52,442	1,520	.....	53,962	85,145
186,450	30,336	216,786	August	20,528	88,817	18,121	1,098	128,564	345,350
667,145	635,503	1,302,648	September	21,106	171,236	34,712	.....	227,054	1,529,702
1,012,583	241,741	1,254,324	October	92,355	19,554	.....	.....	111,909	1,366,233
90,878	10,726	101,604	November	.....	.....	.....	.....	.....	101,604
1,982,583	933,962	2,916,545	1951 TOTALS	133,989	333,049	54,353	1,098	521,489	3,438,034
			1952						
10,050	3,944	13,994	July	...	515	...	...	515	14,509
8,039	115,060	123,099	August	...	1,997	3,642	...	5,639	128,738
284,663	1,014,502	1,299,165	September	8,269	31,840	14,138	...	54,247	1,353,412
792,615	47,424	840,039	October	41,733	48,109	.....	...	89,842	929,881
252,102	4,364	256,466	November	22,308	...	...	...	22,308	278,774
52,591	...	52,591	December	...	4,512	...	...	4,512	57,103
1,400,060	1,185,294	2,585,354	1952 TOTALS	72,310	86,973	17,780	...	177,063	2,762,417
			1953						
21,378	...	21,378	August	...	620	...	...	620	21,998
60,238	505,950	566,188	September	1,062	2,515	...	...	577	569,765
145,034	39,912	184,946	October	18,426	14,211	...	...	32,636	217,583
...	1,000	1,000	November	...	...	...	...	...	...
226,650	546,862	773,512	1953 TOTALS	19,488	17,346	...	...	36,834	809,346
			1954						
33,054	65,898	98,952	September	344	8,773	...	...	9,117	108,069
262,381	84,788	347,169	October	100,358	2,634	...	...	102,992	450,161
8,115	2,122	10,237	November	15,804	10,181	...	...	25,965	36,222
...	...	...	December	13,231	...	...	...	13,231	13,231
303,550	152,808	456,358	1954 TOTALS	129,737	21,588	...	...	151,325	607,683
			1955						
11,205	15,676	26,881	September	...	...	...	...	...	26,881
275,041	43,170	318,211	October	200,000	...	...	...	200,000	518,211
91,508	...	91,508	November	200,000	...	...	...	200,000	291,608
377,754	58,846	436,600	1955 TOTALS	400,000	...	...	...	400,000	836,600

8 Achievements

Of the International Pacific Salmon Fisheries Commission

By SENATOR THOMAS REID
1955 Chairman

1. The Commission has isolated the major cause of the depletion of the Fraser River Sockeye and has remedied it by the construction of fishways at Hell's Gate.
2. By removal of other minor obstructions, with the cooperation of the Department of Fisheries of Canada, the Commission has made the Fraser River system as accessible to Sockeye salmon as ever in history.
3. The Commission has laid the scientific foundations of regulatory control of the fishery so that the Sockeye wealth could be restored, maintained and shared by the fishermen of the signatory countries equally.
4. Regulatory controls in the period 1946 to 1949 designed by the Commission to initiate the rebirth of the Fraser Sockeye fishery, did not seriously interfere with the economy of the fishing industry.
5. The Commission has set regulations which divided the catch of Fraser River Sockeye equally, as near as practicable, between the fishermen of the United States and Canada. In the period 1952 to 1955 American fishermen caught 49.5 per cent of the Sockeye and Canadian fishermen 50.5 per cent.
6. The Commission is fulfilling its purpose to preserve the Sockeye salmon fishery of the Fraser River. in the period 1951 to 1954 the catch of Sockeye was 18,246,000 whereas in the previous brood cycle years of 1947 to 1950 the catch was 6,478,000 Sockeye. The value of the *increase* in pack for the four-year period was \$42,192,000 at current wholesale prices.
7. The Commission has succeeded in finding a method of reestablishing extinct Sockeye salmon populations and is planning for the *extension* of the Sockeye fisheries to rearing areas without spawning grounds.
8. The Commission has conducted extensive scientific investigations to *protect* the Sockeye of the Fraser River by determining the effect of industrial projects.



● Scrutiny of this map and its contained data will show that 1955 produced a check in the consistently-rising picture of the Fraser River Sockeye resource's recovery.

Where for a number of years each season had been better than the last for the fishermen—and each escapement excellent—in 1955 this did not hold.

First, the **run** as a whole was not up to expectations. Why? No one knows for sure, but oceanic conditions appear to have been unfavorable.

Second, the **escapement** was not satisfactory. Why? Because the intensity of fishing, and the extent to which it was carried to sea, made it impossible for the Sockeye Commission to control the fishery in a way to provide the escapement sought.

Third, **survival** of the escapement was poor. Why? Because the early fish moving up the Fraser encountered extraordinarily high water, with block conditions near Yale which either prevented their passage or so delayed and depleted the salmon that the effectiveness of their spawning was largely destroyed.

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Lagoon Shrimping—A minor portion of the shrimp production of the West Coast of Mexico is taken by means of small craft fishing primitive nets in the enclosed lagoons. The major part of the shrimp are caught by means of modern trawlers fishing in the open waters of the Gulf of California or along the continental coast.

PACIFIC SHRIMP

Rich Resource of Modern Mexico

● We must go back five or ten centuries, to our first civilizations on this Continent during the reign of the Toltec, Aztec and Mayan dynasties to hear first of "shrimp." It was then not only a dish for the Emperors but a food of the people, especially in the coastal regions where our shores abounded in protected waters blessed with such an abundance of shrimp that their capture was quite simple even by rudimentary means. The most productive system was the weir which still is used. The richest of these regions is the enormous inland lagoon area that covers several hundred square miles of the northern part of the states of Nayarit and southern Sinaloa. Codexes and narrators of past eras tell of finding shrimp a popular item on the tables of the nobility. How was such a perishable product transported from the closest shore 400 miles from the Capital? It was quite simple for the no-

By
HECTOR FERREIRA

Pesquera E Industrializadora
de Guaymas

bility, of course. Special runners, in relays, brought not only shrimp but other fishery items in a fresh state from the shores to their tables. What the shrimp was worth then; what the fishermen received in payment, as well as other economic problems of the era would be interesting to know.

Somewhat later during the Colonial or Provincial era under Spanish rule, that spans four centuries from the year 1500 to 1800, from Conquest to Independence, again we find frequent mention of our subject matter. However, a new and important aspect is mentioned by the Captains of the Spanish galleons who on the trade routes noticed great shrimp concentrations in

open waters along our Coast. Little is known as to the commercial and economical place of shrimp during those times, until we come to a relatively recent era, around the year 1870, now under an Independent Republican Government, when shrimp in a dried-peeled state was exported to China in commercial quantities for the first time. Mexico's West Coast suffered a Chinese coolie immigration around those years, and they were not slow in developing this commerce, exploiting the local Indian fishermen around the rich Nayarit lagoons. Thus, our shrimp for the first time became an economic factor in international commerce. Until recent years, Mexico continued this trade with China and also supplied the oriental population of California. Canoe fishermen producing this type of *peeled dried* shrimp for export, using the small sizes of shrimp found in most of the

MEXICAN SHRIMP EXPORTS THROUGH CALIFORNIA AND ARIZONA

1954-55

1953-54

MONTH	Fresh Pounds	Frozen Pounds	Total Pounds	MONTH	Fresh Pounds	Frozen Pounds	Total Pounds
November '54	4,515	2,675,868	2,680,383	November '53	109,516	4,911,602	5,021,118
December '54	...	2,362,797	2,362,797	December '53	41,197	4,088,886	4,130,083
January '55	...	1,166,745	1,166,745	January '54	95,072	2,212,321	2,307,393
February '55	...	1,742,572	1,742,572	February '54	14,185	1,512,620	1,526,805
March '55	132	1,536,322	1,536,454	March '54	11,006	1,794,138	1,805,144
April '55	340	1,522,050	1,522,390	April '54	2,715	1,857,828	1,860,543
May '55	437	1,947,575	1,948,012	May '54	560	1,646,182	1,646,742
June '55	...	2,031,375	2,031,375	June '54	21,241	1,925,446	1,946,687
July '55	...	1,282,117	1,282,117	July '54	...	966,485	966,485
August '55	...	810,470	810,470	August '54	...	210,172	210,172
September '55	2,500	1,487,624	1,490,124	September '54	72	924,201	924,273
October '55	2,500	3,265,893	3,268,393	October '54	107,857	2,527,018	2,634,875
TOTAL	10,424	21,831,408	21,841,832	TOTAL	403,421	24,576,899	24,980,320

bays, are now, because of the low return for their effort, turning to the *dried whole* with heads-on product, which has gained increased acceptance in our domestic market at better prices. Of this type, production reaches into 1,000 to 1,500 tons per season.

● The canning method came into successful operation on our West Coast only in the last 26 years. The first cannery was established at Escuinapa, Sin., in 1929 by the firm of Desdier & Magnan. Since then, others have come into operation in widely spread locations on the Coast and as far north as Guaymas. The shrimp used is generally of the smaller sizes. One cannery, however, features the largest sizes such as 16/20s and Under 15s for a quality product. The more successful plants are those located in the lagoon areas where shrimp produced by the weir system are cheap and plentiful. The canning industry amply supplies the domestic market, but notwithstanding the increased demand in recent years, the volume of business does not reach very high proportions. Small quantities of canned shrimp were exported during the war years to the United States, but high production and transportation costs, export duties and marketing problems have made these attempts uneconomical.

This industrial development in canning in Mexico brings us now into the modern era in the shrimp industry on the Pacific Coast. It was back in 1921 when the first endeavor brought two purse seiners, the *Silver Spray* and the *Silver Wave*, rigged for trawling in the bays where they expected to find an abundance of shrimp. They first tried at Guaymas and failing to make good catches moved south to the Topolobampo bays. Here again, the shallow waters made trawling difficult or impossible, and the operation was converted into buying fresh shrimp from the local fishermen that use canoes and cast nets. The operation was discontinued shortly due to insufficient

catches and difficult and high-cost transportation to so distant a market; but the fact remains that John E. Heston, owner of this enterprise, shipped the first fresh shrimp from the West Coast of Mexico to the Los Angeles market in the spring of 1921.

Not until the year 1928 was the next attempt made to take fresh shrimp from the Topolobampo Bay to the Los Angeles market. Adjustments in our recently established governments born of the great social revolution that carried through the 20's must have been an important factor. Because of its large size, our shrimp was almost a new product, in a practically new market. In fact, the best sales brought not more than 6 cents to 8 cents per pound for the sizes we now know as 16/20s and Under 15.

Distance to the market and lack of dependable refrigeration and adequate transportation certainly must have deterred the most enterprising men in the fish business of these times. However, man will not stand still in reaching for and attaining his goals; and, it was an American that tried again. On this occasion he was more determined and persevered from 1928 to 1932 with relative success. He was able to bring out of Topolobampo 40,000 lbs. that first year and obtained such interest for the product that he contracted with Japan for 1,100 tons for the 1930-1931 season but was able to deliver only 237. In 1932, the Japanese interests wanted 1,700 tons but poor fishing that year lowered the curtain on this enterprise. At this time, another noteworthy attempt to take our bay shrimp to the market was made by a Japanese; this time by means of the refrigerated 190' steam schooner, the *Martha Buehner*. She was taken to Topolobampo with the plan to buy from local canoe fishermen. However, this expedition was short lived because of lack of planning, size of the boat, and also, no doubt, distance to market. Since then, however, with the advent of better rail service on our West Coast and better highways from the Arizona bor-

der to California for fast truck service, fresh shrimp was successfully shipped from Guaymas, Yavaros and Topolobampo for several years up to 1941, when the first two modern shrimp freezers were established and in operation at Guaymas and Topolobampo, thereby initiating what was to become a new and important industry in the country's economy.

● Before continuing with the modern or freezing age, I must go back somewhat, to the year 1934 to set forth what in my opinion are two of the most important contributing factors in the development and progress of the industry to its present state: the trawl fishing and freezer-boat operation undertaken by an American concern in that year; and later in 1937 the Japanese undertaking, or rather "taking over," until they were ousted by newly born Mexican enterprise.

The American concern, Pan American Fishing Co., soundly organized and financed, directed by businessmen, some of them real fishermen as well, assisted by able technicians, in the field of refrigeration, transportation and fishing, was amply prepared to develop such a far reaching enterprise. The operation bases at Guaymas consisted of a mothership freezing operation supplied by a fleet of trawlers, mostly converted small purse seiners from the Pacific Coast of the United States. The freezer-boat was the 105' *Theodore Foss*, equipped for freezing and carrying a load of 100 tons of frozen packaged shrimp. They also established a fish oil and meal plant at Guaymas, to keep their boats operating throughout the year and a cold storage plant at San Pedro, Calif. They also had the good sense to gain the good will of everybody by employing and teaching the Mexican fishermen to man the trawlers. The freezer operated at the port employing local labor thereby leaving substantial benefits in income and experience.

Their main contribution, however, was the development of trawl fishing for shrimp. To Lawrence Berg, an old

1955 - FISHERY PRODUCTS IMPORTED FROM MEXICO - 1955

(ENTERED THROUGH CALIFORNIA AND ARIZONA)

Pounds

Species	Nov. '54	Dec. '54	Jan. '55	Feb.	March	April	May	June	July	August	Sept.	Oct.	Total
Fish:													
Cabrilla	...	...	...	...	...	...	13,912	23,716	26,301	1,512	...	...	65,441
Cabrina	...	...	...	...	...	...	...	...	...	...	...	...	...
Fresh & Frozen	...	3,066	42,068	80,310	77,368	66,187	61,187	14,793	...	...	...	...	344,959
Flounder	...	...	...	...	1,279	7,008	1,058	13,536	...	...	...	...	22,881
Pilchards, Fresh	...	...	...	...	...	...	...	1,760	...	...	...	...	1,760
Sea Bass: Wht. & Bk. (Frozen)	5,120	48,000	1,539	...	...	6,343	142	394	...	...	6,720	...	68,258
Shark	...	...	...	50	...	...	...	...	...	...	...	...	50
Tortuava	14,549	114,176	46,971	54,629	265,600	13,750	28,728	11,455	2,223	...	...	5,079	557,160
Tuna, Bluefin	...	...	...	...	...	...	...	2,115	...	...	...	...	2,115
Tuna, Albacore	...	...	...	...	...	...	...	...	2,000	1,556	615	...	4,171
Unclassified:													
Fresh & Frozen	54,112	57,086	36,032	72,972	110,167	80,292	132,893	125,443	138,452	138,449	70,618	21,903	1,038,419
Dried & Salted	...	...	656	285	...	...	...	...	...	...	...	...	941
Yellowtail	...	...	...	...	7,774	...	...	...	...	...	...	...	7,774
Halibut	...	...	...	...	...	...	...	...	...	24,000	...	...	24,000
California Halibut	...	...	...	...	...	...	...	431	...	...	...	...	431
TOTAL	73,781	222,328	127,266	208,246	462,188	173,560	237,920	193,643	168,976	165,517	77,953	26,982	2,138,360
Shellfish:													
Abalone: Canned	275,184	209,296	157,600	145,776	159,456	9,600	129,368	459,696	288,144	286,032	434,870	354,000	2,909,022
" Dried	...	3,050	4,080	1,950	8,030	...	...	...	...	...	...	4,500	21,610
Clams, incl. Clam-	...	...	...	...	...	...	...	...	...	...	...	...	...
meat Fresh & Froz.	11,891	15,778	4,876	16,390	4,025	...	12,700	10,005	92,156	6,302	85,398	15,596	275,117
Mussels, Fr. & Frozen	...	...	...	...	...	2,520	...	...	...	...	...	...	2,520
Shrimp, Fr. & Frozen	2,680,383	2,362,797	1,166,745	1,742,572	1,536,454	1,522,390	1,948,012	2,031,375	1,282,117	810,470	1,490,124	3,268,393	21,841,832
Spiny Lobsters	282,010	515,105	383,751	422,980	433,523	...	...	...	...	...	...	330,370	2,367,739
Unclassified Shellfish	...	500	...	...	...	...	3,990	...	2,921	...	...	...	7,411
TOTAL	3,249,468	3,106,526	1,717,052	2,329,668	2,141,488	1,534,510	2,094,070	2,501,076	1,665,338	1,102,804	2,010,392	3,972,859	27,425,251
Other Fishery Products													
Livers: Sea Bass	...	...	...	...	3,100	...	...	...	...	650	...	...	3,750
" Shark	15,200	35,871	20,557	15,978	20,630	...	40,031	42,397	57,686	12,696	30,894	3,900	295,840
Miscellaneous	25,000	359,040	...	820	1,208	860	30,000	2,098	70,395	...	15,000	121,000	625,421
Meal	67,000	341,200	...	26,400	...	...	...	...	128,800	28,500	...	304,000	893,900
Shark Fins	2,365	5,388	6,825	137	3,682	1,878	6,276	6,219	10,435	5,728	15,014	3,695	67,642
TOTAL	109,565	741,499	27,382	43,335	28,620	2,738	76,307	50,714	138,516	147,874	87,408	432,595	1,886,553
GRAND TOTAL	3,432,814	4,070,353	1,871,700	2,581,249	2,632,296	1,710,808	2,408,297	2,745,433	1,972,830	1,416,195	2,175,753	4,432,436	31,450,164

hand at fishing in the northwest, goes the credit of bringing into Guaymas the first shrimp caught by trawlers. Through their activities they explored most of our Coast line and established most of the presently recognized fishing areas from Guaymas south to Altata and north to Salinas Bay. They also developed the solid block type of packaging the shrimp that characterizes the pack used on this Coast today, first in 8 lb. packages and later in 5 lbs. Their achievement, however, did not reap the fruits they so rightfully deserved. When Japanese competition set in, involving political interference, the American firm decided it was not worth the fight and moved their base from Guaymas to Topolobampo where they made a determined, but losing stand, to finally give up in the year 1938, leaving the entire coast in the hands of the Japanese, but leaving us as well, a wealth of experience and good will among all. Those fishermen that learned to trawl, handle and freeze shrimp were soon to become the captains of the first Mexican fleet and the pillars of our industry.

● The Japanese, traditionally a fishing people, certainly must have been watching the attempts to develop this fishery and saw its tremendous potentialities. The enactment of laws providing for a cooperative system of exploiting the fisheries by Mexican fish-

ermen, who were granted the sole right to fish, and the formation of these organizations that followed immediately, made the "taking-over" by the Japanese of the fishery a simple formality. They had the benefits of ample markets in their own country and practiced dumping only sufficient shrimp into the California market, the only accessible market at the time in the United States for the large sizes of shrimp, to demoralize prices and force the American concern from the field, which they finally succeeded in doing by 1938.

Behind this apparently innocent industrial undertaking, however, from which great benefits supposedly were to redound to our country and our fishermen, sinister motives and plans were soon evident and in action. They practically took over the water and coastline of the Gulf of California, and down the mainland to San Blas and wherever they pleased to go, making surveys of every aspect of interest to them in this enormous area so strategically located, for what already was in preparation and the world was soon to discover. This operation consisted wholly of a sea-going operation, based on four motherboat freezer-transporters each of 3,000 tons approx. with a fleet of 28 100' to 120' steel trawlers. The frozen product was transported to Japan and California in the four refrigerated transports.

The Japanese enterprise was divided between 3 or 4 concerns that based their operations at the port of Guaymas at the start, and later extended to Yavaros, Topolobampo, La Reforma, Altata and Mazatlan. They contracted with the only cooperative in each port, thereby closing the door to any and all competitors.

What benefits did this Japanese operation give our fishery? Two, in my opinion. First, they extended the known fishing areas from Altata down to San Blas, about 400 miles of coast line, and explored into deeper waters; and, second, their presence became unbearable to every right-thinking man and promoted and engendered the deep-rooted desire to see them out of the country. This finally culminated in the taking over by Mexican interests of all aspects of the industry from fishing to freezing. In this undertaking, an ex-president of Mexico, long connected with other fishing interests, together with an American brokerage firm, and assisted by local men with experience in the fishing and canning business, were the main factors in founding the Mexican Pacific shrimp industry.

● The first Mexican enterprise to replace the Japanese set up at Guaymas an operation covering all phases of the business; a fleet of 15 boats properly equipped, land freezing plant, ice plant,

1955 -Weighted Average Shellfish Prices at Seattle- 1955

SPECIES	Unit	Dec. '54	Jan. '55	Feb.	March	April	May	June	July	August	Sept.	October	Nov.
Clams													
Butter	lbs.	\$.08	\$.08	\$.08	\$.08	\$.08	\$.08	...	...	...	...	...	\$.08
Razor	lbs.	...	.30	.18	.20	...	...	...	...	...	...	...	...
Little Neck	lbs.	.13	.13	.13	.13	.13	.13	\$.13	...	...	...	\$.11	.13
Clam meat	lbs.	.31	.35	.35	...	.35	...	...	...	...	...	...	...
Crabs, Dungeness, cooked	lbs.	.21	.24	.24	.29	.29	.29	.29	\$.29	\$...	\$.23	.28	.28
Crabs, Ocean	doz.	2.95	2.50	2.50	3.00	3.00	3.00	3.00	3.00	...	...	...	...
Crabs, Puget Sound	doz.	2.40	2.50	2.50	...	...	...	...	...	...	...	2.85	2.80
Crab meat	lbs.	.85	.85	.90	1.00	1.00	1.10	1.00	1.20	...	1.10	1.20	1.25
Octopus	lbs.	.04	.05	.05	.05	.05	.05	.05	...	...	...	.05	.05
Oysters													
Olympia	gal.	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00	25.00	25.00	25.00	25.00
Pacific	gal.	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	3.75	4.00	4.00
Coast	gal.	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	3.75	4.00	4.00
Shrimp, local	lbs.	...	...	...	...	.40	...	...	...	...	...	...	...

shipyard for new boat construction and repair, ship chandler's, financing, and most important, adequate distributing channels in the U. S. Market.

The first modern freezing plant was constructed at Guaymas in May, 1941, and a second plant was in operation at Topolobampo the following October. Both companies contracted from the fishermen's cooperatives the production of shrimp; provided financing for the construction of new boats; and the fishing operation was practically placed in the hands of the fishermen. The operation was a success from the start. The plants were not the model they should have been because of technical deficiencies in their installation, but this was corrected within a short period and ample freezing capacity obtained. The product was carefully hand-picked and layered packed and heavily glazed, such as it is presented today, and although market prices were not too high at the time, they were sufficiently lucrative to make the operation a success. Demand increased tremendously during the war years, but profits remained curtailed because of the limit set by ceiling prices. I can say with pride that the Mexican industry during the war years sold all its production through its official distributors and at the official ceiling price.

It was not long before other enterprisers followed, and a third plant at Guaymas started operations in 1944. The first boat freezer came into operation successfully in 1945. Constructed at Guaymas, the *Almirante Brenton* was a 65' wood purse seine type boat. Others saw good business opportunities in the industry and by 1948 there were six shrimp freezers and 130 trawlers in operation at Guaymas alone.

About this time, 1947 to be exact, farseeing new entrepreneurs established the first plant at Mazatlan; an entirely new ground to be developed and exploited. Little was known of the previous Japanese operation in those waters and the risk involved was considerable. This first Mazatlan plant is now one of the finest and

more successful on this Coast. Since, four others have started operations there and those southern waters have proved to be the richest on this Coast.

Plants at La Reforma and Culiacan also sprang up in the same waters and came into operation.

The Northern waters of the Gulf of California about 300 miles north of Guaymas had been explored for shrimp and exploited since 1934 by the first American Company. First only a small estuary called Bahia Salinas, where only six or eight boats could operate successfully, and only in the month of June. Slowly but surely, each year further operations succeeded in establishing other fishing grounds in that area, and for longer periods, until today fishing is continuous throughout the season from the start on October 1st, to its closing July 31, but production is more erratic than in other areas, with some very good and also very poor periods. The fishery in the North based at the ports of San Felipe, Rockpoint and Santa Clara operates approximately 125 boats and four freezing plants. Santa Rosalia, across the Bay from Guaymas, also saw a modern plant established by local interests, with relative success, but because of the isolated location, away from ready transportation and other related problems, they closed and moved their fishing operation to Guaymas.

The areas around Tehuantepec Isthmus, at our southernmost coast, almost at the boundary with Guatemala, was known to produce dried whole shrimp from extensive protected bay waters, and only four years ago new pioneers tried outside dragging and discovered important concentrations of shrimp. This now is firmly established as an important fishery and supports one large freezing plant, three ice houses and two or three freezer boats, moved there during the peak season. Here the industry found all the facilities required, such as a fine protected harbor, railway, highways and steamer service with refrigeration; ample sup-

plies of fuel, water and food. The shrimp produced is large size, averaging 15 to the pound practically the year 'round and although the specie is the "Stylostris" or the same blue-white of our northern waters, its mixed and changeable coloring makes it difficult to classify properly in packing. A small percentage of the catch is of the small brown hard shell species.

The ever-expanding industry intermittently was pressed by many problems such as financial, technical, social and economical, the ever changing elements and cycles of nature, and recently by the greater problem of smaller catches in the older producing grounds, requiring more and greater efforts to survive. Recently it found important shrimp beds on the Pacific Coast side of the Peninsula of lower California. This unexpected and momentous event came at the end of a poor season in the month of May, 1952, when some of the fleets were returning from the Salina Cruz waters and ready to tie up. The catch in one month amounted to over 1,000 tons of mostly under-12 size blue-shrimp. Unfortunately, here again the unfavorable elements have played adversely and since hitting that "jackpot," the concentrations of shrimp have dispersed and good catches are rare. They now run anywhere from 1/2 to 3 tons and many times absolutely nil. In fact, because of the distance from the mainland ports and the risk involved, boats will chance the run only when they foresee a failure in their own coastal grounds.

The industry was lacking completely in knowledge of the shrimp resource and Guaymas producers at the suggestion of the American, Milton J. Lindner, established an institution of scientific character, the "Instituto de Pesca del Pacifico," for research in the various species of shrimp that supported the industry. It was voluntarily financed by boat owners by a quota of 10 Pesos per ton of shrimp produced. This was later augmented by contributions from the Fishery Office, the

Banco de Mexico and Nacional Financiera, but unfortunately this income was insufficient to carry through the yearly programs.

However, the Instituto produced important data and conclusions on our principal species "Stylostris," popularly called the "blue" or "white," and which was until the last four years 90% of the total catch, by trawling and tagging operations conducted on their own exploratory vessel, the *Sharonna*. Under the direction of three biologists it also conducted extensive studies on the ground at the lagoons areas of Sinaloa and Nyarit to establish conclusively the need of suspending the system of fishing by weirs that hold the young shrimp from migrating to open waters. This merited the favor of our Minister of Marine, and was the basis for a program with the fishermen's cooperatives whereby their number would be reduced and changes to more proper methods in fishing would be applied. With the change of officials in the Government and meddling by political influences, this program was suspended and it remains as the industry's problem No. 1 among others, to solve the decrease in volume of production in the last four years in the principal areas of the fishery. Unfortunately, the Instituto has suspended all research work, due to lack of funds, withheld during this period of organization by our Government of a National Fishery Institute.

Also to the credit of the Director, Dr. Rene Nunez, the Instituto produced one of the most comprehensive and conclusive studies on the life cycle of shrimp as found in the extensive bays at Guaymas, from spawn to adult life; work that has merited the compliments of scientific institutions.

Private industries have also contributed to the search for technical advancement by conducting explorations in deeper waters, improvement of equipment, etc., some of which required underwater photography.

The industry has kept abreast of advances in the technical field, as well, and most of its components are progressive men that take pride in their work and the products they ship to

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market. This would not be complete without mentioning the present state of the industry, from a production of 2,500 lbs. in 1941, it reached 29,000,000 in 1954, and probably will level off for a time.

The total production figures reported do not reflect the true picture. The older and important fishing areas have suffered a reduction in volume and also in value because of the appearance of brown, smaller shrimp.

The productions from the newest grounds such as Salina Cruz and the outer Pacific have contributed in keeping the grand total more or less at a level during the last three years, however. Our market, which is mainly in the U. S., has been generally good, with the short lapses when prices have been forced down by temporary periods of relative overproduction, coinciding with adjustments in the general economy. The present season has seen stable prices with good demand and would say that market conditions appear to be as sound as ever.

Mexico has grasped the friendly hand of the American industry and is cooperating in the solution of the marketing problems as well as many others that confront us all, and will be solved successfully only through that continued participation in friendly unison. The vehicle has been the Shrimp Association of the Americas. This to me and to the Mexican Pacific Coast Shrimp Industry is a milestone in our history and in time I trust will be one of our greatest achievements. History will not stand still. It is being written now and most of us will still participate in its pages.



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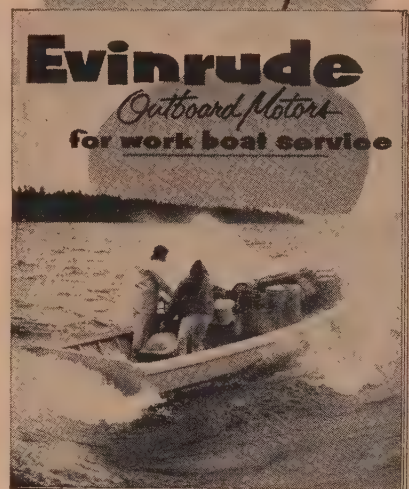
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1955 -PACIFIC CANNED CLAM PACK-1955

Company	Cannery Location	RAZOR CLAMS					
		1-lb. Talls 48's	No. 1 E.O. 48's	½-lb. 48's	No. 10 -6's	Total Cases as they run	Total Std. Cases basis 48-½'s
Bell Buoy Crab Company	Seaside, Oregon	...	...	243	...	243	243
Halferty Canneries,	Cordova, Alaska	...	...	44,817	...	44,817	44,817
Mohawk Packing Company	Moclips, Washington	...	...	5,562	...	5,562	5,562
Pioneer Canneries,	Aberdeen, Washington	...	...	4,805	...	4,805	4,805
TOTAL U. S. RAZOR CLAMS		...	...	55,427	...	55,427	55,427
Queen Charlotte Cannery	Masset, British Columbia	...	...	3,800	...	3,800	3,800
TOTAL RAZOR CLAMS		...	...	59,227	...	59,227	59,227
Company	Cannery Location	HARDSHELL CLAMS					
		200	1,400	350	925	550	750
Scheerer Canning Company	Everett, Washington	1,150	1,400	1,100	925	4,575	7,350
Miscellaneous	Puget Sound	...	...	...	...	...	...
TOTAL U. S. HARDSHELL CLAMS		1,350	1,400	1,450	925	5,125	8,100
TOTAL B. C. HARDSHELL CLAMS		...	...	6,780	...	6,780	6,780
GRAND TOTAL, ALL CLAMS		1,350	1,400	67,457	925	71,132	74,107

Canners Are Few But Pack Rises

● Although canners were few, Pacific clam canning in 1955 held close to the pattern of the past, and exceeded it in several instances. This was particularly true of razor clams, where the pack of 59,227 cases was the best produced in any year since 1947.

Alaska advanced its canning of razor clams by about one-third; and in Washington and Oregon production was almost double. This is in spite of the fact that the number of individual canning operations was smaller than usual.

Razor clams, with this specialized

market limited close to the Pacific Coast, appeared to be in better defensive position than Pacific hardshell clams to resist the competitive pressure of the great pack of Atlantic Coast minced clams which has grown in recent years to command most of the national market for domestic canned clams.

● Washington beaches yielded surprisingly well to the diggers of 1955. The razor clams were available to the diggers to the outermost bars, largely because good weather and favorable tides coincided. Beach conditions were favorable and there was an abundance of large clams. As re-

PACIFIC CLAM PACK IN PREVIOUS YEARS

Year	(Basis 48 halves per cases)				Year	(Basis 48 halves per case)			
	RAZOR CLAMS					HARD SHELL CLAMS			
	Alaska	Wash.&Oregon	B.C.	TOTAL		Alaska	Wash.	*B.C.	TOTAL
1929	28,270	63,526	13,050	104,846	1929	....	19,514	21,547	41,061
1930	33,937	54,746	12,623	100,324	1930	600	27,735	18,738	46,073
1931	43,460	53,412	8,658	105,440	1931	2,600	19,516	18,043	40,159
1932	69,147	46,002	8,457	123,606	1932	76	13,264	9,201	22,541
1933	38,213	38,772	....	76,985	1933	....	22,438	20,432	45,163
1934	31,655	30,232	....	61,656	1934	....	25,880	11,630	37,510
1935	34,864	53,057	....	87,921	1935	....	37,249	20,418	57,667
1936	29,900	49,692	....	79,592	1936	....	45,222	25,158	70,380
1937	29,044	20,373	....	49,417	1937	....	45,788	25,174	70,962
1938	42,305	64,167	....	106,472	1938	....	40,007	44,310	84,317
1939	35,258	60,205	....	95,463	1939	....	39,165	10,862	50,027
1940	41,556	51,705	....	93,261	1940	....	35,250	7,151	42,402
1941	22,736	27,629	....	50,365	1941	....	22,380	6,772	29,152
1942	46,703	3,999	5,568	56,270	1942	....	10,972	12,240	23,212
1943	48,692	1,732	5,821	56,275	1943	2,457	2,902	11,642	†34,001
1944	47,050	3,512	**	50,562	1944	11,630	19,863	**	†71,024
1945	43,476	38,152	**	81,628	1945	6,029	11,752	4,693	22,474
1946	51,594	51,063	**	102,657	1946	14,441	20,574	23,867	58,826
1947	24,726	42,970	....	67,696	1947	323	15,301	**	15,624
1948	34,425	11,720	....	46,145	1948	92	12,600	....	12,692
1949	42,103	4,482	923	47,518	1949	125	16,449	9,794 ½	26,368 ½
1950	54,534	849	1,583	56,966	1950	....	8,919	8,456	17,375
1951	44,082	11,014	3,196	58,292	1951	15	13,981	15,460	29,456
1952	25,960	9,843	***	35,803	1952	179	13,544††	24,592	38,315
1953	39,234	8,449	5,183	52,866	1953	164	13,281††	19,249	32,694
1954	31,463	5,541	8,413	45,417	1954	1,634	22,336	23,717	47,687
1955	44,817	10,604	3,800	59,227	1955	...	8,100	6,780	14,880

† Total includes clams canned in California from clam meats produced in Mexico, 1700 cases in 1943, 39,531 cases in 1944, and 225,299 cases in 1945, and 39,944 cases canned in California in 1946. †† Includes a small amount canned in California. ** British Columbia totals not available.

* British Columbia figures for years 1932 to 1947 and 1951, 1952 and 1953

include some razor clams. *** Included with Hardshell.

NOTE: - Data for current year from original sources. Data for previous years are from official sources, converted to Pacific standard cases of 48 halves.

WASHINGTON RAZOR CLAM PRODUCTION

YEAR	COPALIS BEACH			GRAYLAND BEACH			LONG BEACH			KALALOCK, etc.	Total Catch All Beaches (Pounds)
	(Pounds)			(Pounds)			(Pounds)			Total Catch-Pounds	
	# of Digs	Total Catch	Per Dig	# of Digs	Total Catch	Per Dig	# of Digs	Total Catch	Per Dig		
1937	20,695	546,486	26.4	9,028	285,317	31.6	2,986	99,591	33.4	46,478	997,872
1938	37,064	1,366,441	36.9	20,765	882,619	42.5	9,410	364,383	38.7	44,670	2,650,355
1939	23,903	846,633	35.4	11,182	433,796	38.7	11,321	653,992	57.7	30,692	1,965,113
1940	25,343	604,338	23.8	13,582	347,435	25.5	25,115	1,159,123	46.1	14,886	2,125,782
1941	12,389	406,393	32.8	2,643	111,819	42.3	3,307	222,129	67.2	806	741,147
Reserve	7,965	347,693	43.7								
1942	5,088	143,148	28.1	814	26,283	32.3	3,941	174,104	44.2	*	343,535
1943	5,284	164,907	31.2	1,005	24,728	24.1	799	20,627	25.8	*	210,262
1944	8,485	409,374	48.2	2,705	105,425	38.9	2,651	108,030	40.7	*	622,829
1945	14,519	1,124,965	77.5	5,289	512,298	96.9	4,255	418,673	98.4	1,235	2,057,171
1946	12,387	922,516	74.5	10,548	461,773	43.8	11,109	663,776	59.8	*	2,048,065
1947	16,681	1,164,321	58.5	6,564	305,122	46.5	9,105	544,657	59.7	*	2,014,100
1948	18,263	687,612	37.6	6,642	249,869	37.6	8,489	268,862	31.8	50,350	1,256,693
1949	14,496	475,649	32.8	5,412	177,227	32.7	1,220	42,169	34.5	26,686	721,731
1950	11,878	251,879	26.9							5,303	237,182
1951	14,583	700,173	48.0								700,173
1952	17,630	651,733	37.0							39,595	691,328
1953	13,203	504,050	38.1				724	60,267	83.2	28,863	593,180
1954	8,407	550,524	63.2				152	11,759	77.3	35,018	597,301
1955	7,859	614,061	78.1				224	24,666	110.0	110,682	749,409

NOTE: In 1950 the catch per dig was computed only on pounds sold, which equaled 5,205 digs for 140,017 lbs. 91,862 lbs. of the quota were not sold and the number of digs for this unsold portion does not agree with the digs and pounds sold.

*The small amount dug is included with Copalis Beach.

OREGON CLAM LANDINGS

YEAR	Pounds											
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1945	10,481	23,314	53,499	29,843	29,458	57,569	67,578	34,961	21,768	12,505	9,341	10,822
1946	12,150	30,471	61,310	33,600	44,313	67,755	41,399	31,983	21,130	8,883	18,237	12,519
1947	26,936	33,572	47,126	31,537	58,325	38,980	66,384	33,868	13,353	3,201	12,533	3,199
1948	19,953	15,875	33,408	38,856	61,816	50,750	55,484	40,914	15,631	11,211	5,518	6,473
1949	12,859	5,924	23,428	29,333	70,451	38,844	36,599	29,888	13,678	41,825	28,866	5,846
1950	9,204	15,981	19,317	31,079	78,537	107,309	45,183	52,794	36,306	33,708	37,564	13,747
1951	6,929	16,749	34,942	41,729	60,359	72,691	80,390	36,295	19,016	...	...	...
1952	8,320	24,363	30,038	47,825	95,815	67,068	74,881	52,471	24,533	39,970	24,680	6,200
1953	3,052	12,917	14,177	50,671	94,673	78,799	54,518	27,501	20,396	18,526	2,930	4,664
1954	4,343	10,651	17,084	24,199	55,084	53,807	54,041	35,718	11,983	7,876	9,902	6,898
1955	14,001	12,842	18,855	21,820	44,413	56,578	52,578	33,511	17,518	...	...	...

sult, the Copalis Beach quota of 550,000 lbs. of clams was quickly taken by the commercial diggers and the quota was extended until the beach yielded a total of 723,000.

The average length of the razor clams taken by Washington diggers was 4.8 inches, and the clams weighed-out to an over-all average of 3.4 to the pound—the largest in any year since 1947.

Estimated utilization of the Washington commercial dig of razor clams indicates that 360,000 lbs. were canned, 170,000 lbs. used as crab bait, 81,000 lbs. sold fresh, and 112,000 lbs. retained by the diggers for personal use.

Although the Washington yield was excellent in 1955, biological sampling and appraisal of the condition of the beaches during the winter of 1955-6 indicated the need for lightening the pressure in 1956. Accordingly, the quota will be reduced.

Terrific recreational digging pressure sustained by the Washington beaches is indicated by the fact that the Washington Department of Fisheries reports there were 475,000 digger-days of recreational digging on the Washington beaches in 1955, with an estimated drain on the resources exceeding the commercial catch of even the heaviest years.

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MAY CONCERN:

If your production costs are higher than they ought to be, you very likely can do something about it. Often one change in a method or process can make the difference between loss and profit. We'd like a chance to consult with you and see if such a change in method won't improve your profit picture. (It certainly has paid off for many other firms). The best part is, that it won't cost you one cent to find out. Just clip the attached coupon and mail it. When you do, one of our trained conveyor belt representatives will visit you to discuss and examine your particular problem and offer suggestions that will show you how Cyclone Metal Processing Belts may cut your production costs below the ulcer level. These suggestions will be tailored to YOUR problem . . . and no obligation. How can you lose? Do it, today.

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AMERICAN STEEL & WIRE DIVISION, UNITED STATES STEEL CORPORATION, WAUKEGAN, ILLINOIS
UNITED STATES STEEL EXPORT COMPANY, NEW YORK

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Company

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UNITED STATES STEEL

VALUE OF PRINCIPAL CANNED FISH PRODUCTS

Year	PACIFIC SALMON				SARDINES				Pacific Tuna	Mackerel	Oysters	Shrimp	Clams	Crabs	Miscellaneous Fish Products	GRAND TOTAL
	Pacific Coast States	Alaska	Total	New England States	California	Bonito	Tuna-Chunks, Flakes	Tuna-Yellowfin Cases								
1921-25*	\$11,060,592	\$29,457,922	\$40,518,514	\$5,751,523	\$4,428,409	44,186	8,162	185,561	131,553	274,970	70,283	155,561	63,794	71,087	\$1,552,481	\$86,437,317
1926-30*	12,775,490	38,232,082	51,010,572	6,281,986	9,494,787	22,277	7,631	366,395	107,496	362,175	50,008	366,395	63,794	35,729	2,703,368	89,474,509
1931-35*	5,815,667	25,513,777	31,329,444	2,974,505	4,519,462	18,900	16,331	503,077	117,221	194,491	132,342	503,077	124,809	109,235	2,649,056	64,303,662
1936	5,303,438	44,751,633	50,061,071	5,740,454*	7,302,273	119,805	18,613	478,810	119,805	147,874	147,874	478,810	124,809	130,235	2,942,053	94,564,254
1937	8,386,165	44,547,769	52,933,934	4,998,373	4,998,373	74,985	29,561	478,810	74,985	147,874	147,874	478,810	124,809	130,235	2,942,053	94,564,254
1938	5,278,892	36,635,897	42,914,789	2,367,045	7,102,358	38,254	14,411	478,810	38,254	147,874	147,874	478,810	124,809	130,235	2,942,053	94,564,254
1939	6,733,727	34,441,122	41,174,849	7,075,096	9,553,663	42,114	16,291	478,810	42,114	147,874	147,874	478,810	124,809	130,235	2,942,053	94,564,254
1940	14,574,918	38,049,668	52,624,586	7,336,394	9,553,663	42,114	16,291	478,810	42,114	147,874	147,874	478,810	124,809	130,235	2,942,053	94,564,254
1941	11,193,317	56,217,601	67,410,918	12,590,958	18,091,873	42,114	16,291	478,810	42,114	147,874	147,874	478,810	124,809	130,235	2,942,053	94,564,254
1942	13,673,968	57,824,287	71,498,255	12,590,958	18,091,873	42,114	16,291	478,810	42,114	147,874	147,874	478,810	124,809	130,235	2,942,053	94,564,254
1943	5,110,847	57,824,287	62,935,134	11,054,570	14,325,359	42,114	16,291	478,810	42,114	147,874	147,874	478,810	124,809	130,235	2,942,053	94,564,254
1944	5,187,136	51,196,140	56,383,276	14,819,803	15,225,919	42,114	16,291	478,810	42,114	147,874	147,874	478,810	124,809	130,235	2,942,053	94,564,254
1945	7,942,102	44,644,303	52,586,405	12,077,201	15,346,472	47,407,451	4,046,691	478,810	47,407,451	4,046,691	478,810	47,407,451	124,809	130,235	2,942,053	94,564,254
1946	17,003,459	53,157,194	70,160,653	20,275,590	19,895,649	59,135,823	7,575,291	478,810	59,135,823	7,575,291	478,810	59,135,823	124,809	130,235	2,942,053	94,564,254
1947	31,969,134	88,669,542	120,638,676	28,310,674	16,538,375	90,609,175	15,018,633	478,810	90,609,175	15,018,633	478,810	90,609,175	124,809	130,235	2,942,053	94,564,254
1948	24,008,466	96,528,730	120,537,196	29,359,114	21,892,893	112,612,296	9,850,834	478,810	29,359,114	21,892,893	112,612,296	9,850,834	124,809	130,235	2,942,053	94,564,254
1949	22,167,812	81,263,168	103,430,980	21,334,825	20,345,609	112,612,296	9,850,834	478,810	21,334,825	20,345,609	112,612,296	9,850,834	124,809	130,235	2,942,053	94,564,254
1950	27,187,060	81,403,511	108,590,571	21,209,033	20,345,609	112,612,296	9,850,834	478,810	21,209,033	20,345,609	112,612,296	9,850,834	124,809	130,235	2,942,053	94,564,254
1951	29,388,514	79,237,355	108,625,869	14,635,352	19,362,744	108,625,869	14,635,352	108,625,869	14,635,352	19,362,744	108,625,869	14,635,352	124,809	130,235	2,942,053	94,564,254
1952	21,906,773	76,357,016	98,263,789	21,502,970	918,072	108,625,869	21,502,970	918,072	21,502,970	918,072	108,625,869	21,502,970	124,809	130,235	2,942,053	94,564,254
1953	24,067,839	58,172,629	82,240,468	16,954,119	8,314,304	124,553,249	16,954,119	8,314,304	124,553,249	16,954,119	8,314,304	124,553,249	124,809	130,235	2,942,053	94,564,254
1954	28,923,820	63,356,724	92,280,544	18,152,815	12,506,172**	142,148,816	18,152,815	12,506,172**	142,148,816	18,152,815	12,506,172**	142,148,816	124,809	130,235	2,942,053	94,564,254

*Average.

**Includes Anchovies valued at \$2,722,640.

CALIFORNIA CANNED FISH PACKS

Year	Albacore Cases	Tuna-Bluefin Cases	Tuna-Skipjack Cases	Tuna-Yellowfin Cases	Tuna-Chunks, Flakes	Tuna-Tonno Cases	Bonito Cases	Yellowtail Cases	Mackerel Cases	Salmon Cases	Sardine Cases	Shad Cases	Squid Cases	Pet Food Cases	Misc. Cases	TOTAL CASES	YEAR
1926	66,001	70,283	274,970	185,561	8,162	131,553	44,186	18,940	550	11,761	2,163,755	....	23,536	....	63,794	3,043,052	1926
1927	126,699	50,008	362,175	366,395	7,631	207,496	22,277	24,530	10,961	8,435	2,625,412	....	....	....	44,396	3,882,900	1927
1928	99,751	132,342	194,491	503,077	16,331	117,221	18,900	5,657	388,471	4,585	2,815,330	7,475	....	....	124,809	4,431,488	1928
1929	132,638	89,728	347,132	478,810	18,613	119,805	47,874	15,266	611,503	5,503	3,941,459	9,791	6,056	....	53,925	6,012,433	1929
1930	145,531	309,604	268,130	878,321	29,561	74,985	69,341	21,343	127,333	11,202	3,069,524	1,796	25,271	....	127,236	5,159,239	1930
1931	144,973	46,462	278,398	618,344	14,411	36,220	38,254	2,041	101,217	14,070	1,794,941	....	19,827	47,372	4,655	3,158,465	1931
1932	65,377	8,687	305,007	678,313	16,291	42,247	42,114	3,115	89,176	2,005	1,001,845	201	....	67,256	50	2,332,052	1932
1933	49,391	7,581	273,041	397,792	13,090	41,200	36,560	33,518	780,126	3,076	1,422,560	....	1,740	80,224	1,369	3,698,293	1933
1934	82,182	332,441	267,828	1,097,912	30,502	55,163	52,554	9,816	1,214,491	820	2,051,726	....	4,257	80,224	1,104	5,324,084	1934
1935	112,149	438,501	338,493	1,254,478	41,658	82,205	128,065	81,177	1,761,166	874	2,529,262	13,124	8,781	128,826	2,269	6,920,625	1935
1936	53,884	334,377	480,260	1,418,045	24,873	58,537	104,078	112,128	1,238,348	....	2,820,742	13,124	12,384	128,826	5,178	6,803,815	1936
1937	91,159	215,535	763,916	1,582,477	60,438	137,737	129,572	47,460	793,760	147	2,883,204	6,361	5,531	179,230	100	6,986,616	1937
1938	289,389	324,198	372,998	1,284,179	84,476	67,404	125,854	71,234	988,890	....	2,443,469	11,244	20,187	287,403	545	6,341,557	1938
1939	356,675	218,476	469,570	1,927,292	72,240	77,340	159,090	24,614	988,718	....	3,326,162	12,665	23,926	384,427	150	8,021,345	1939
1940	145,741	313,210	836,223	2,005,819	227,320	174,942	189,067	68,482	1,435,113	1,125	5,395,284	68	24,603	832,091	100	9,374,133	1940
1941	92,240	168,702	433,029	1,759,908	170,549	33,838	176,593	129,307	843,747	1,125	5,395,284	68	24,603	1,021,903	16	9,820,465	1941
1942	239,505	279,098	719,574	696,209	502,515	26,599	35,625	73,268	859,312	1,475	3,400,106	24,945	119,237	197,403	....	6,941,643	1942
1943	425,741	174,865	383,167	827,483	584,454	15,363	8,490	19,848	966,422	1,691	3,725,567	12,541	141,808	....	45,206	7,738,949	1943
1944	480,615	297,558	548,174	1,497,991	826,783	16,198	49,816	17,336	569,617	5,457	3,684,562	12,541	184,141	....	225,971	8,346,210	1944
1945	381,271	333,001	604,545	1,221,692	826,783	108,306	44,045	133,734	1,522,199	18,754	3,102,232	....	589	638,843	56,689	9,085,235	1945
1946	286,272	370,693	904,451	2,642,354	742,088	33,762	243,994	133,734	1,522,199	18,754	3,102,232	....	1,778	1,087,040	199,115	10,230,401	1946
1947	797,035	96,473	303,235	3,355,759	850,760	22,665	158,253	53,428	971,646	22,786	3,203,028	2,477	369,762	1,153,802	204,741	12,274,848	1947
1948	861,737	46,336	1,068,215	2,694,947	1,782,223	82,859	20,312	53,767	934,104	1,801	4,286,034	883	88,217	1,249,366	20,265	13,161,076	1948
1949	1,125,463	11,186	734,528	1,632,692	4,497,839	257,356	8,263	14,073	1,410,541	4,279	5,430,439	1,948	84,675	2,060,709	85,827	17,359,751	1949
1950	607,230	....	....	1,586,142	1,632,692	14,356	87,489	14,073	1,410,541	1,266	3,052,642	1,078	234,884	1,593,176	431,465	13,595,879	1950
1951	982,063	....	....	1,947,310	4,493,574	162,277	14,356	87,489	1,410,541	3,115	109,633	1,375	1,751,006	1,751,006	724,522	12,474,885	1951
1952	1,215,362	....	....	1,352,438	5,710,166	179,002	46,509	181,261	1,573,745	4,931	64,084	4,911	166,612	1,692,786	1,202,769	13,968,514	1952
1953	1,092,313	....	....	1,582,457	6,988,302	180,166	69,638	100,480	598,305	2,162	1,437,228	1,997	134,718	1,892,187	469,814	13,960,379	1953
1954	1,092,313	....	....	1,582,457	6,988,302	180,166	69,638	100,480	598,305	2,162	1,437,228	1,997	134,718	1,892,187	469,814	13,960,379	1954

Bluefin, Skipjack and Yellowfin are combined under Yellowfin from 1951.

1955 - PACIFIC CANNED CRAB - 1955

COMPANY	Cannery Location	Cases 48 Halves	COMPANY	Cannery Location	Cases 48 Halves
ALASKA			WASHINGTON		
Alaska Fresh Co.	Kodiak	4,341*	Grays Harbor Crab Company	Hoquiam	2,100
Coastal Glacier Seafood Company	Pelican	572	Nelson Crab & Oyster Company	Tokeland	5,879
Fox Seafoods Company	Sitka	606	Pacific Pearl Seafoods	Westport	2,500
Island Seafoods Company	Kodiak	1,823*	West Coast Seafoods Company	Tokeland	2,750
King Crab, Inc.	Kodiak	1,884*			
Pacific Pearl Frozen Foods	Hydaburg	628			
Pacific Pearl of Alaska	Ketchikan	1,770			
Shelter Cove Packing Company	Cordova	115			
Shields, J. E. Co.	Alaska, floating	4,660*			
Smith, Wm. F.	Tanakee Springs	3,016			
Thompson, N.E. Company	Kake	1,200			
TOTAL ALASKA		20,615	TOTAL WASHINGTON		13,229
BRITISH COLUMBIA			OREGON		
Queen Charlotte Cannery, Ltd.	Masset	7,942	Bell Buoy Crab Company	Seaside	138
			Columbia River Packers Assoc.	Astoria	120
			Point Adams Packing Company	Hammond	2,465
			TOTAL OREGON		2,723
			TOTAL DUNGENESS CRAB		31,957
			TOTAL KING CRAB		12,708
			GRAND TOTAL, ALL CRAB		44,665
CALIFORNIA					
Lazio, Tom Fish Company	Eureka	156			

NOTE: - All cases have been counted on the basis of 48 halves, but no attempt has been made to distinguish between the two sizes of "halves" - "standard" and "Tuna size". It should be noted that the large majority of the crab pack currently is canned in the latter style, 6½ oz. net. In current commercial practice the Pacific canned crab pack largely is marketed in half-cases of 24 cans, instead of in the 48-can standard case.

* King Crab.

Less Canning; More Refrigeration

● Refrigeration took the spotlight away from canning in 1955 so far as the Pacific crab business is concerned—and that goes for Dungeness as well as King crab.

The canned pack was decidedly less than half that of the year 1954 and, with the exception of 1951, the smallest since the war.

Marketing of crab under refrigeration, on the other hand, took a long leap forward.

In the case of crab selling, "refrigeration" means the shipment of cooked crabs in ice, whole crabs frozen, picked crab meat frozen in tins, and other products which rely upon cold in its various forms and

degrees to protect the freshness of the highly perishable product until it can be consumed.

● Evidence of the swing toward refrigeration is found in the statistics for frozen crabmeat, which show that 765,642 lbs. of frozen, picked crabmeat of the Dungeness or Pacific var-

PACIFIC CANNED CRAB

(Shown in Standard Cases of 48 Half-pound Cans)

Year	Alaska	Washington	Oregon	California	American Total		British Columbia	North American Total	Year
					Cases	Value			
1955	20,615	13,229	2,723	156	36,723	\$ 957,600	7,942	44,665	1955
1954	41,642	36,141	24,717	362	102,862	2,618,464	9,717	112,579	1954
1953	21,026	15,482	7,898	146	44,552	1,303,606	5,037	49,589	1953
1952	22,647	9,076	9,624	237	41,584	1,173,211	5,148	41,584	1952
1951	26,753	19,885	39,878	1,500	88,016	2,332,424	4,159	88,016	1951
1950	25,927	23,270	28,075	1,260	78,532	1,868,680	7,283	85,815	1950
1949	13,198	65,004	36,652	...	114,854	2,547,765	4,839	119,693	1949
1948	26,076	104,362	56,982	3,500	187,420	4,264,622	3,500	190,920	1948
1947	10,158	54,756	34,582	6,624	106,120	2,037,904	2,481	108,601	1947
1946	15,792	19,263	29,106	15,194	79,356	2,271,965	1,455	80,811	1946
1945	15,760	9,070	896	...	25,726	398,898	...	25,726	1945
1944	13,376	16,524	10,968	...	40,868	653,888	385	41,253	1944
1943	9,386	18,332	20,874	...	48,592	782,173	...	48,592	1943
1942	7,766	26,052	45,338	...	79,156	1,266,496	885	80,041	1942
1941	11,126	13,232	13,346	...	37,704	311,822	3,386	41,090	1941
1940	12,828	8,634	3,792	...	25,254	178,021	3,794	29,048	1940
1939	11,978	2,716	8,406	...	23,100	184,254	2,049	25,149	1939
1938	...	...	...	...	27,016	258,375	2,157	29,173	1938
1937	...	...	...	...	27,394	269,699	1,546	28,940	1937
1936	...	...	...	...	14,758	124,925	...	14,758	1936
1935	...	...	...	...	13,840	106,832	...	13,840	1935
1934	...	...	...	...	22,869	184,052	...	22,869	1934
1933	...	...	...	...	17,564	134,330	...	17,564	1933
1932	...	...	...	...	9,314	73,112	...	9,314	1932
1931	...	...	...	...	263	2,104	...	263	1931

OREGON CRAB LANDINGS

Year	Dozen												Total
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
1945	17,006	19,199	17,315	41,706	47,675	43,305	10,820	10,413	4,226	9,135	9,807	12,419	243,026
1946	17,065	21,815	30,732	34,074	80,626	34,414	13,694	5,783	4,568	8,859	12,834	14,814	279,278
1947	22,660	27,457	40,555	46,527	78,649	50,317	20,806	7,188	3,813	3,686	8,821	3,971	314,250
1948	35,592	37,973	63,516	87,353	96,885	34,841	15,171	9,098	4,969	4,205	2,862	9,206	401,471
1949	49,617	22,681	52,571	60,613	73,273	45,310	19,539	11,433	4,828	4,770	8,914	20,312	373,861
1950	22,414	26,186	38,315	35,513	46,910	27,012	6,997	4,145	3,914	3,095	9,730	25,864	250,095
1951	34,161	39,080	41,361	49,042	54,348	11,740	4,764	3,742	2,065	...	...	...	240,303
1952	19,864	23,672	28,024	42,256	45,842	11,150	5,268	3,577	2,233	5,618	15,981	14,780	218,265
1953	15,790	28,080	49,241	58,797	60,383	18,252	6,143	3,822	2,769	4,087	17,105	58,339	322,808
1954	61,369	62,746	86,731	72,434	36,170	7,789	5,054	3,666	1,896	2,849	16,334	30,034	387,072
1955	37,850	44,103	39,902	30,158	25,931	13,498	6,690	3,514	1,654	....	....	....	203,300

Washington Crab Landings

YEAR	Puget Sound	Grays Harbor	Willapa Harbor	Columbia River	TOTAL
	Pounds*	Pounds**	Pounds**	Pounds**	POUNDS
1936	441,892	451,890	865,194	.....	1,758,976
1937	500,104	643,234	1,441,352	3,428	2,588,118
1938	521,180	387,728	1,831,716	.....	2,740,624
1939	441,122	620,004	2,153,496	.....	3,214,622
1940	428,692	1,134,182	3,341,754	.....	4,904,628
1941	514,184	1,293,222	3,969,152	206,984	5,982,542
1942	989,186	2,262,696	2,134,818	249,304	5,636,004
1943	1,267,024	2,732,090	1,052,550	56,660	5,108,324
1944	1,790,118	2,622,316	1,529,196	83,326	6,024,956
1945	1,993,398	1,961,978	1,439,204	4,838	5,399,418
1946	2,284,810	3,674,536	2,022,004	121,335	8,102,685
1947	1,512,808	6,599,380	3,822,288	38,184	11,972,660
1948	1,933,426	9,080,584	4,241,256	614,184	15,869,450
1949	1,355,148	7,633,157	3,204,240	950,006	13,142,551
1950	2,373,316	2,171,072	1,427,042	399,440	6,371,166
1951	1,547,502	1,321,400	1,806,096	154,970	4,829,968
1952	915,807	1,373,708	1,892,842	82,580	4,264,937
1953	1,190,186	2,700,206	3,035,435	78,263	7,004,090
1954	1,667,085	3,099,287	3,356,879	191,177	8,314,428
1955	1,568,092	2,690,858	1,866,877	199,122	6,324,949

*Conversion: 22 lbs. per dozen.

**Conversion: 24 lbs. per dozen.

NOTE: - 1955 Puget Sound figures are incomplete but include best available estimates to Dec. 31, 1955

iety was produced, while the net weight of the combined canned crab pack, both King and Pacific varieties, aggregated only 893,300 lbs.

In addition to the pack of frozen picked crabmeat, there was produced 1,241,770 lbs. of crab frozen in the shell, beside a large volume of crab sold fresh in the shell.

● What happened to canning? Competition, principally. Competition of

the imports of Japanese crab, including the several lower-ranking varieties; and also competition from the growing, and improving, refrigerated crab items.

Improved technology in freezing or chilling crabs, and in the marketing of it, unquestionably served to divert much of the supply from the cannery trade.

With a canned market weakened

by imports, and a good demand for the fresh and frozen product, Pacific operators in 1955 generally took the quick, sure dollar, even though the profit was narrow, and shipped their goods under refrigeration rather than putting them into cans with the added cost of manufacture.

Crab fishing generally was good during 1955, and the year ended with heavy production—so heavy in fact that fishing on the Oregon Coast stopped when the dealers dropped the price to 12c.

● With Japanese King crab production sharply increased by highly successful operations in the Okhotsk Sea, and the prospect that this gain will be largely overtopped in future, American King crab operations in the Bering Sea and Kodiak-Cook Inlet areas swung sharply away from canning in 1955 and toward the several successful frozen King crab products.

Japanese King crab producers, in anticipation of substantial further increase in the future supply of their product, were understood to be preparing to embark upon a market promotion campaign in the United States.



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Pacific oyster industry's stature continued to rise in 1955, with the packing of oyster stew increasingly important in spite of solid increase in sales fresh.

● Marketing of Pacific Oysters in 1955 apparently attained the highest levels in the history of the business. Particularly notable was the continuing growth in the canning of oyster stew, which in recent years has come to require a substantial part of the oyster production of the Pacific Northwest.

Although the requirements of oysters for stew have made some inroads on the supply available for the packing of canned oysters as such, the

pack of standard canned oysters in 1955 stood at the highest level noted since the production of stew became important.

An interesting development in oyster stew production in 1955 was the introduction of frozen oyster stew, packed in hermetically sealed cans but without cooking, by the Haines Oyster Co., Seattle marketing cooperative for a group of independent producers.

● Notable in the industry's develop-

ments during the year was the acquisition of substantial interests in the Coast Oyster Co., largest Pacific Oyster packing concern, by British Columbia Packers, Ltd., and the Van Camp Sea Food Co.

Thus the largest fish producer in the British Empire and one of the largest concerns in the fish business in the United States took substantial positions in the Pacific Oyster growing and packing industry.

Full implications of the transaction have not yet become apparent, but it

PACIFIC CANNED OYSTERS

SEASON OF 1954 - 1955

Company	Cannery Location	Cases of 48 Cans			
		No. 1 E.O. 10-oz.	Buffet 8 oz.	No. 1 Tall	Total Cases, as they run
E. H. Bendiksen Co.	South Bend, Washington	9,135	13,220	...	22,355
Coast Oyster Co.	South Bend, Washington	27,875	24,604	3,354	55,833
Northern Oyster Co.	Oysterville, Washington	300	150	...	450
Wiegardt Bros.	Ocean Park, Washington	10,117	2,309	...	12,426
TOTAL		47,427	40,283	3,354	91,064
					83,845

PACIFIC CANNED OYSTERS, equivalent of standard cases of 48 No. 1 E.O. packed in -

1954	100,886	1943	583	1938	111,348	1933	32,315
1953	114,687	1942	72,315	1937	110,872	1932	12,233
1952	112,415	1941	178,445	1936	118,853	1931	7,930
1951	132,140	1940	148,870	1935	88,062		
1950	120,742	1939	112,549	1934	68,323		
1949	113,989	1944	none				

*Also packed 1,530 cases of smoked oysters.

PACIFIC CANNED OYSTER STEW

SEASON OF 1954 - 1955

COMPANY	CANNERY LOCATION	Cases of 48 cans			
		No. 1 E.O. 10-oz.	Buffet 8-oz.	Cases as they run	Total Standard Cases Basis 48 E. O.
Coast Oyster Co.	South Bend, Washington	55,921	17,562	73,483	69,970
Hilton Seafoods Co.	Seattle, Washington	62,163	42,352	104,515	96,045
Northern Oyster Co.	Oysterville, Washington	250	250	500	450
Wiegardt Bros.	Ocean Park, Washington	1,999	1,993	3,992	3,593
TOTAL CANNED		120,333	62,157	182,490	170,058
Haines Oyster Co.	Seattle, Washington	...	3,518*	3,518*	2,814*

*Frozen in cans.

OYSTERS

PLANTINGS OF IMPORTED PACIFIC OYSTER SEED

YEAR	WASHINGTON				OREGON			California	British Columbia	TOTAL	Year
	Willapa Harbor	Grays Harbor	North Puget Sound	South Puget Sound	Coos Bay	Yaquina and Alsea	Tillamook				
1947	22,933	5,230	6,025	4,117	8,200	...	7,157	750	(a) 2,292	56,704	1947
1948	14,685	1,150	5,562	1,962	3,400	1,550	1,005	850	2,675	32,839	1948
1949	17,357	7,425	6,429	4,748	290	1,930	2,500	350	4,644	45,873	1949
1950	16,512	1,550	6,830	5,745	4,425	1,300	3,575	565	5,204	45,706	1950
1951	18,569	2,250	8,665	7,119	6,749	1,500	1,274	350	(b) 5,404	51,900	1951
1952	40,526	.....	15,335	7,954	455	.....	5,625	250	(c) 3,584	73,729	1952
1953	31,669	4,900	22,583	(d) .....	.....	.....	(e) 8,810	250	1,435	69,647	1953
1954	32,087	7,325	12,210	10,528	.....	.....	(e) 953	2,526	1,576	67,205	1954
1955	30,424	846	8,132	11,273	250	176	386	9,850	(f) 1,875	63,212	1955

(a) Includes 100 cases planted in Alaska. (b) Includes 4 cases planted in Alaska.
(e) Includes all Oregon Coast points. (f) Includes 18 cases planted in Alaska.

(c) Includes 7 cases planted in Alaska.
(d) Included with North Puget Sound.

is believed that the Van Camp company, through its Chicken of the Sea, Inc., marketing subsidiary, will sell all canned products of the Coast Oyster Co., while marketing of Coast's fresh and frozen oysters will be in the hands of the Rupert Fish Co. and Freeman's Certi-Fresh Foods, American sales subsidiaries of British Columbia Packers, Ltd.

● Outstanding in the physical plant developments of 1955 in the Pacific Oyster business was the opening of a new cannery by the Hilton Seafoods Co. in Seattle. This concern, which in a short time had rocketed into first place in the packing of Pacific Oyster stew, established a new and wholly

modern canning plant on the Seattle waterfront where it packs oysters received daily from shucking plants on the beds and trucked overnight to Seattle under refrigeration.

● A notable aspect of Pacific oyster seed planting in 1955 saw large-scale development on Humboldt Bay, near Eureka, Calif., where Coast Oyster Co. in the fall of the year planted 9,000 cases of oyster seed, by far the largest such planting ever made in California.

Unfortunately, within a few weeks after planting the Humboldt Bay area was subjected to catastrophic floods, which were believed to have affected the new planting adversely.

Conditions for catching a domestic set of seed in Pacific Northwest waters have not been satisfactory for a number of seasons, and growers generally have not relied upon their own seed-catching efforts to a significant degree.

Cost of seed from Japan, however, is an important factor and all growers keep themselves in position to avail themselves of favorable conditions if they develop.

Thus prepared cultch is kept on hand and a close check maintained on water temperatures and oyster spawning and setting behavior.

Spring seed planting in Pacific Northwest waters in 1956 was scheduled for normal volume.

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Hard-hit by price collapse in the spring of 1955, after producing the largest pack of halibut in history, the Pacific halibut business set its house in order and regained a strong position before the end of the year.

With moderate inventory, frozen at lower cost, orders cut rapidly into inventory and 1956 opened with a strong situation, directly reversing that of 12 months before.

● Halibut was looking up—both eyes on the top side, you know—as 1956 opened; and it was about time, for 1955 had been a bad one, rough at sea and slippery in the market.

Dealers said, and there was more

reason than usual to believe them, that inventories were extremely low going into the new year—in the sharpest contrast with the situation prevailing a year before.

Moreover, there was no apparent

likelihood of a sweeping change before new fish would come. Prices probably would move up under such light inventories as spring advanced.

What produced this sharp reversal? When *Pacific Fisherman* asked this question of one of the best-informed

Pacific Halibut Catch by Areas and Nationalities

YEAR	Pounds										YEAR
	AREA 1	AREA 2†			AREA 3‡			TOTAL American	TOTAL Canadian	GRAND TOTAL	
	American	American	Canadian	Total	American	Canadian	Total				
1932	902,271	16,026,631	5,960,640	21,987,271	21,146,037	451,761	21,597,798	38,074,939	6,412,401	44,487,340	1932
1933	722,254	14,880,259	7,649,400	22,529,659	22,887,941	637,672	23,525,013	38,490,454	8,286,472	46,776,926	1933
1934	1,541,258	13,360,103	9,004,714	22,364,817	22,829,989	726,658	23,556,648	37,731,350	9,731,372	47,462,722	1934
1935	*1,489,294	13,112,709	8,954,740	22,067,449	22,532,977	1,251,314	23,784,291	37,134,980	10,206,054	47,341,034	1935
1936	708,301	13,865,731	8,696,865	22,562,596	23,717,665	1,887,788	25,605,453	38,291,697	10,584,653	48,876,350	1936
1937	709,752	13,445,575	9,852,348	23,297,923	23,551,917	1,912,966	25,464,883	37,707,244	11,765,314	49,472,558	1937
1938	706,316	13,737,819	9,571,461	23,309,280	22,820,005	2,623,208	25,443,213	37,264,140	12,194,669	49,458,809	1938
1939	1,072,675	13,466,002	10,913,035	24,379,037	22,761,120	2,552,125	25,313,245	37,299,797	13,465,160	50,764,957	1939
1940	779,036	14,395,547	11,101,558	25,497,105	25,396,243	1,582,314	26,978,557	40,570,826	12,683,872	53,254,698	1940
1941	332,259	13,332,247	10,609,166	23,941,413	25,590,281	2,350,333	27,940,614	39,254,787	12,959,499	52,214,286	1941
1942	285,621	14,046,982	9,147,146	23,194,128	24,903,636	2,054,745	26,958,381	39,236,239	11,201,891	50,438,130	1942
1943	419,944	13,740,543	11,116,583	24,857,126	26,569,949	1,790,540	28,360,489	40,730,436	12,907,123	53,637,559	1943
1944	318,689	14,957,704	11,149,714	26,107,418	24,782,581	2,190,459	26,973,040	40,058,974	13,340,173	53,399,147	1944
1945	529,000	13,230,000	11,750,000	24,980,000	25,605,000	3,551,000	29,156,000	39,364,000	15,301,000	54,665,000	1945
1946	605,000	14,068,000	14,451,000	28,519,000	27,067,000	4,058,000	31,125,000	41,740,000	18,509,000	60,249,000	1946
1947	406,000	10,387,000	17,175,000	27,562,000	20,869,000	7,081,000	27,950,000	31,662,000	24,256,000	55,918,000	1947
1948	283,000	13,273,000	14,203,000	27,476,000	23,276,000	4,453,000	27,729,000	36,832,000	18,656,000	55,488,000	1948
1949	426,000	12,461,000	13,588,000	26,049,000	23,433,000	5,158,000	28,591,000	36,320,000	18,746,000	55,066,000	1949
1950	335,000	12,594,000	14,115,000	26,709,000	25,413,000	4,769,000	30,182,000	38,399,000	18,884,000	57,283,000	1950
1951	314,000	14,426,000	16,191,000	30,617,000	20,318,000	4,829,000	25,147,000	35,058,000	21,020,000	56,078,000	1951
1952	391,000	13,355,000	17,133,000	30,488,000	23,868,000	7,586,000	31,454,000	37,614,000	24,719,000	62,333,000	1952
1953	238,000	14,442,000	18,060,000	32,502,000	19,447,000	7,678,000	27,125,000	34,127,000	25,738,000	59,865,000	1953
1954	674,000	19,165,000	17,574,000	36,739,000	23,841,000	9,952,000	33,793,000	43,680,000	27,526,000	71,206,000	1954
1955	639,000	15,645,000	13,015,000	28,660,000	20,607,000	9,184,000	29,791,000	36,889,000	22,199,000	59,088,000	1955

† Figures for Area 2 for 1937 and thereafter include halibut which were taken incidentally to cod fishing after the closure of Area 2, as allowed by regulations of the International Fisheries Commission for these years. The approximate amounts are: 278,000 lbs. in 1937; 280,000 lbs. in 1938; 372,943 lbs. in 1939; 304,155 lbs. in 1940; 510,204 lbs. in 1941; 55,895 lbs. in 1942; 856,360 lbs. in 1943; 844,596 lbs. in 1944; 920,000 lbs. in 1945; 1,184,000 lbs. in 1946; 392,997 lbs. in 1947; 898,246 lbs. in 1948; 870,138 lbs. in 1949; 319,745 lbs. in 1950; 885,000 lbs. in 1951; 461,000 lbs. in 1952; 603,000 lbs. in 1953; 969,000 lbs. in 1954 and 1,156,000 lbs. in 1955. In Area 3, 58,632 lbs. in 1949; 94,000 lbs. in 1951; 11,000 lbs. in 1952; 13,000 lbs. in 1953, and 8,000 lbs. in 1954.

* This figure includes landings from Areas 1 and 4, as defined in the regulations for 1935. This amount should compare directly with the Area 1 catch of previous years, as it is not believed any fish were landed in 1935 from that portion of Area 4 which included Bering Sea.

NOTE: 1955 figures of the International Pac. Halibut Commission are preliminary and subject to further correction. In data for 1951 and thereafter Area 1 includes the catches from Areas 1A and 1B and Area 2 include the catches from Areas 2A, 2B and 2C. In data for 1952 and thereafter Area 3 includes the catches from Areas 3A, 3B and 4.

1955-PACIFIC HALIBUT CATCH, Areas 2 and 3-1955

	AREA 2*			AREA 3*			TOTAL		TOTAL
	U. S.	Canada	Total**	U. S.	Canada	Total**	U. S.	Canada	**
May	6,505,000	6,938,000	13,443,000	1,876,000	368,000	2,244,000	8,381,000	7,306,000	15,687,000
June	4,730,000	3,919,000	8,649,000	7,547,000	4,365,000	11,912,000	12,277,000	8,284,000	20,561,000
July	269,000	46,000	315,000	6,526,000	3,075,000	9,601,000	6,795,000	3,121,000	9,916,000
August	3,430,000	2,043,000	5,473,000	3,888,000	1,129,000	5,017,000	7,318,000	3,172,000	10,490,000
September	376,000	38,000	414,000	693,000	127,000	820,000	1,069,000	165,000	1,234,000
October	252,000	19,000	271,000	77,000	29,000	106,000	329,000	48,000	377,000
November	83,000	12,000	95,000	...	20,000	20,000	83,000	32,000	115,000
December***	...	...	...	...	71,000	71,000	...	71,000	71,000
TOTALS	15,645,000	13,015,000	28,660,000	20,607,000	9,184,000	29,791,000	36,252,000	22,199,000	58,451,000

*Area 2 includes all grounds between Willapa Bay and Cape Spencer and Area 3 all grounds west of Cape Spencer including the present Areas 3A and 3B.

*** International Pacific Halibut Commission tagging.

**These totals include 1,126,000 lbs. of halibut which were taken incidentally to blackcod fishing in Area 2 and none in Area 3, as allowed by the 1955 Regulations of the International Pacific Halibut Commission. This table does not include the partially estimated amount of 637,000 lbs. landed from Areas 1A and 1B.

men in the business the three-word answer was as reasonable as it was crisp:

"Basic halibut economics".

● Take a look at them:

In the spring of 1955 the trade had a heavy inventory of halibut from the 70.8 million-pound record catch of the year before. Why had so much

been carried over? Because, and here is a peculiar aspect of the situation, the prices in 1954 had been high despite the fact that the volume also had been high. Thus, the economic law of supply and demand had been violated. To recover their costs, dealers priced their fish high, at levels where demand was retarded and into-consumption movement slowed.

Came spring, and the large unsold stocks of frozen halibut had to be liquidated—and in a special hurry because the season was opening early.

"Mark prices down until fish moves", said the weaker holders.

"Meet the price and beat it", said their competitors—and down it went. Prime mediums came to sell for 21c to 23c in New York. They had been

PACIFIC HALIBUT CATCH SINCE 1914

YEAR	Pounds										YEAR	
	AMERICAN VESSELS					CANADIAN VESSELS						GRAND TOTAL
	Seattle *	Prince Rupert **	Alaska	Oregon & California ***	Total American	Pr. Rupert, Butedale, Klemtu	Vancouver, New Westm., Vancouver I.	American Ports	Total Canadian			
1914	41,825,575	1,877,000	5,175,993	...	48,878,568	8,742,100	4,991,500	...	13,733,600	62,612,168	1914	
1915	33,133,313	11,323,500	5,561,577	...	50,018,390	8,444,715	4,791,000	...	13,235,715	63,254,105	1915	
1916	20,259,446	13,810,895	6,961,628	...	41,031,969	6,710,500	5,258,000	...	11,968,500	53,000,469	1916	
1917	22,884,434	14,216,030	6,792,138	...	43,892,602	5,839,030	3,686,000	...	9,525,030	53,417,632	1917	
1918	16,455,564	10,790,500	6,076,500	...	33,322,564	4,338,000	1,552,000	...	5,890,000	39,212,564	1918	
1919	16,968,639	13,000,700	7,366,991	...	37,336,330	6,120,000	1,957,000	...	8,077,000	45,413,330	1919	
1920	19,692,915	14,676,400	8,035,000	...	42,404,315	7,190,000	2,010,600	...	9,200,600	51,604,915	1920	
1921	17,127,783	19,531,400	8,784,029	...	45,443,212	8,906,000	4,149,400	...	13,055,400	58,498,612	1921	
1922	14,602,780	17,248,900	4,772,038	...	36,623,718	8,510,000	3,559,500	...	12,069,500	48,693,218	1922	
1923	12,017,312	20,366,800	8,283,590	...	40,667,502	9,392,900	3,707,200	...	13,100,100	53,767,602	1923	
1924	11,889,080	20,913,200	12,663,776	...	45,466,056	8,181,500	4,043,500	...	12,225,000	57,691,056	1924	
1925	11,197,474	22,434,800	9,752,465	400,000	43,784,739	6,181,600	3,207,600	...	9,389,200	53,169,939	1925	
1926	10,156,630	20,483,800	14,011,005	600,000	45,252,435	6,869,200	4,156,500	...	11,025,700	56,278,135	1926	
1927	11,917,150	18,664,400	15,386,766	400,000	46,818,316	6,941,000	1,523,400	...	8,464,400	55,282,716	1927	
1928	13,788,775	20,389,700	9,623,700	760,000	44,562,175	8,349,500	1,541,500	...	9,891,000	54,453,175	1928	
1929	12,359,170	20,599,200	12,882,426	1,103,888	46,890,984	8,045,100	1,747,800	...	9,792,900	56,683,884	1929	
1930	12,671,470	16,997,800	11,389,756	930,000	41,989,832	7,006,600	1,475,200	...	8,481,800	50,471,632	1930	
1931	15,087,672	10,573,300	9,638,150	953,000	36,252,122	6,202,400	1,424,800	...	7,627,200	43,879,322	1931	
1932	22,000,296	10,633,800	4,568,829	1,050,000	38,253,025	4,227,700	2,023,200	...	6,250,900	44,503,925	1932	
1933	22,263,992	8,757,300	6,781,451	679,066	38,461,454	5,649,200	2,630,700	...	8,300,255	46,761,709	1933	
1934	20,718,328	8,591,983	7,132,059	1,288,980	37,731,350	7,946,499	1,784,873	...	9,731,372	47,462,722	1934	
1935	22,388,941	6,927,014	6,538,114	1,280,911	37,134,980	7,636,694	2,563,276	...	10,206,054	47,341,034	1935	
1936	22,726,642	6,204,645	8,654,364	706,646	38,291,697	8,111,472	2,468,936	...	10,584,653	48,876,350	1936	
1937	21,351,684	7,017,857	8,646,993	690,710	37,707,244	9,032,623	2,711,562	...	11,765,314	49,472,558	1937	
1938	20,995,966	7,324,178	8,220,752	704,734	37,264,140	8,617,890	3,384,569	192,210	12,194,669	49,458,809	1938	
1939	20,070,259	9,319,026	6,897,208	1,013,304	37,299,797	9,904,372	3,466,362	94,428	13,465,162	50,764,957	1939	
1940	18,863,872	11,210,740	9,481,893	1,014,321	40,570,826	9,323,133	3,355,516	5,223	12,683,872	53,254,698	1940	
1941	19,095,973	10,036,640	8,998,580	1,123,594	39,254,787	8,708,902	4,173,967	76,630	12,959,499	52,214,286	1941	
1942	14,865,306	13,430,294	10,169,162	771,477	39,236,239	5,997,895	5,203,996	65,680	11,201,891	50,438,130	1942	
1943	13,278,341	12,309,595	14,096,356	1,046,144	40,730,436	6,281,348	6,487,010	138,765	12,907,123	53,637,559	1943	
1944	11,881,680	5,444,672	21,853,111	879,511	40,058,974	8,458,974	4,823,502	59,211	13,240,173	53,399,147	1944	
1945	12,651,000	4,571,000	21,049,000	1,093,000	39,364,000	11,606,000	3,503,000	192,000	15,301,000	54,665,000	1945	
1946	13,932,000	4,384,000	22,502,000	928,000	41,740,000	15,117,000	2,919,000	473,000	18,509,000	60,249,000	1946	
1947	5,816,000	2,585,000	22,422,000	841,000	31,664,000	17,868,000	6,117,000	270,000	24,255,000	55,919,000	1947	
1948	9,941,000	2,479,000	23,790,000	621,000	36,831,000	13,665,000	4,813,000	179,000	18,657,000	55,488,000	1948	
1949	10,017,000	4,205,000	21,473,000	625,000	36,320,000	13,745,000	4,318,000	683,000	18,746,000	55,066,000	1949	
1950	8,663,000	3,683,000	25,265,000	788,000	38,399,000	15,237,000	3,577,000	70,000	18,884,000	57,283,000	1950	
1951	11,100,000	4,389,000	19,034,000	535,000	35,058,000	15,717,000	4,742,000	561,000	21,020,000	56,078,000	1951	
1952	13,152,000	3,037,000	20,862,000	563,000	37,614,000	19,275,000	4,315,000	1,129,000	24,719,000	62,333,000	1952	
1953	14,598,000	2,020,000	17,033,000	476,000	34,127,000	18,351,000	6,296,000	1,019,000	25,738,000	59,865,000	1953	
1954	17,626,000	4,224,000	20,769,000	1,061,000	43,680,000	15,324,000	9,916,000	2,286,000	27,526,000	71,206,000	1954	
1955	16,071,000	2,751,000	17,337,000	730,000	36,889,000	12,361,000	7,485,000	2,353,000	22,199,000	59,088,000	1955	

NOTE: - 1955 figures of the International Pacific Halibut Commission are preliminary and subject to further correction.

*Includes the very small amount of fish landed at Neah Bay and elsewhere on Puget Sound.

** Includes the fish occasionally landed by American vessels at Buteedale, Vancouver and elsewhere in Canada.

***Landings in Oregon and California not segregated prior to 1925.

1955 Catch by Seasons for Each Regulatory Area

	AREA 2		AREA 3A		AREA 3B*		ALL AREAS	
	CATCH	No. of Vessels	CATCH	No. of Vessels	CATCH	No. of Vessels	CATCH	** No. of Vessels
Canada	2,015,000	61	43,000	1	156,000	3	2,214,000	65
U. S.	3,287,000	127	1,415,000	36	777,000	18	5,479,000	181
U. S. And Canada	5,302,000	188	1,458,000	37	933,000	21	7,693,000	246

* No catches were made during the first and second season in this area which includes all waters west of Sanak Ids., and in Bering Sea.

** Exclusive of duplication.

bought at an average of about 20¢ in Seattle during the fishing season.

When the debacle was over the dealers all took private, personal vows that it would never happen again—and it *didn't*, during the following season.

● Things were different in the halibut year of 1955.

Dealer determination to keep prices within the ready-movement range had something to do with it—but most of the change was wrought by the natural forces which control the weather and the presence, movement and availability of fish.

From the very beginning of the season May 12 production was slowed by weather. The International Halibut

Fisheries Commission's careful records showed that *more boat-days were lost to weather* in 1955 than in any previous year* of which there is accurate record.

For example, the Area 3A closure in 1955 was July 26, giving a season 76 days long, compared with July 12 and 58 days in 1954.

Closure of Area 2 on June 5, after

1955 -Seattle Halibut Fleet Landings by Months-1955

MONTHS	Trips	HALIBUT NO. 1		HALIBUT NO. 2		LINGCOD		ROCKFISH		SABLEFISH		TOTAL	
		Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
January	4	...	...	...	...	36,790	\$ 3,710	2,413	\$ 121	...	...	39,203	\$ 3,831
February	3	...	...	...	...	16,216	2,116	1,857	94	...	...	18,073	2,210
May	93	2,076,525	\$ 306,649	1,021,129	\$ 134,416	...	...	...	...	1,676	\$ 201	3,099,330	441,266
June	113	1,931,700	335,700	1,501,100	221,200	1,900	100	2,500	100	53,700	7,300	3,490,900	564,400
July	81	1,284,500	248,700	1,382,100	209,700	2,000	100	8,200	400	225,100	31,800	2,901,900	490,700
August	134	2,063,100	377,600	1,712,400	261,300	20,000	1,100	16,000	800	223,300	32,100	4,034,800	672,800
September	76	275,300	69,200	300,700	53,100	4,600	200	66,500	3,200	769,300	106,000	1,416,400	231,700
October	64	129,200	35,000	55,000	10,400	8,800	400	55,400	2,700	732,100	101,600	980,500	150,100
November	25	22,200	6,200	...	...	6,500	700	9,000	500	185,200	28,800	222,900	362,200
Total	593	7,782,525	\$1,379,049	5,972,429	\$ 890,116	96,806	\$ 8,326	161,870	\$ 7,915	2,190,376	\$307,801	16,204,006	\$2,593,207
1954 Total	590	9,680,975	\$1,969,571	6,305,330	\$1,149,601	137,381	\$14,177	158,442	\$ 8,017	2,224,123	\$341,184	18,506,251	\$3,482,704
1953 Total	486	8,072,514	1,457,140	4,912,713	787,245	85,126	8,441	137,648	6,703	1,902,412	285,891	15,110,413	2,545,420
1952 Total	527	6,613,702	1,544,979	4,685,046	1,018,696	522,490	73,791	181,359	9,757	1,597,801	240,853	13,600,398	2,888,076
1951 Total	485	6,011,835	1,362,710	3,628,699	740,182	279,953	39,354	244,289	16,453	2,004,053	265,082	12,168,829	2,423,781
1950 Total	371	4,461,658	1,237,069	2,921,919	730,756	363,641	32,974	152,139	8,052	1,090,129	196,838	8,989,486	2,204,577
1949 Total	473	4,953,126	1,119,834	4,166,069	797,911	418,202	39,457	192,544	12,894	1,813,775	177,709	11,543,370	2,147,796
1948 Total	461	4,990,417	1,136,824	4,089,321	742,761	491,683	53,744	229,698	14,387	1,372,309	227,947	11,200,428	2,175,663
1947 Total	302	3,705,948	972,481	1,887,355	423,403	301,745	31,630	165,098	12,149	1,378,694	179,151	7,438,840	1,619,199
1946 Total	458	6,823,696	1,509,839	6,299,384	1,286,742	261,803	23,787	218,598	14,136	1,358,433	199,832	14,961,914	3,034,336
1945 Total	459	6,547,387	1,148,683	5,376,141	2,008,265	893,283	86,952	287,623	24,030	572,376	65,816	13,676,821	2,185,062

North Pacific Halibut Seasons

YEAR	AREA 2			AREA 3			YEAR
	Opened	Closed	Fishing Days	Opened	Closed	Fishing Days	
1933	Feb. 1	Aug. 25	206	Feb. 1	Oct. 26	268	1933
1934	Mar. 1	Aug. 19	172	Mar. 1	Oct. 27	241	1934
1935*	Mar. 1	Sept. 6	159*	Mar. 1	Dec. 26	270*	1935
1936	Mar. 16	Aug. 10	148	Mar. 16	Nov. 3	233	1936
1937	Mar. 16	July 28	135	Mar. 16	Oct. 19	218	1937
1938	Apr. 1	July 29	120	Apr. 1	Oct. 29	212	1938
1939	Apr. 1	July 29	120	Apr. 1	Oct. 28	211	1939
1940	Apr. 1	July 13	104	Apr. 1	Sept. 26	179	1940
1941	Apr. 1	June 30	91	Apr. 1	Sept. 14	167	1941
1942	Apr. 16	June 29	75	Apr. 16	Sept. 25	163	1942
1943	Apr. 16	June 20	66	Apr. 16	Sept. 8	146	1943
1944**	Apr. 16	July 9	51**	Apr. 16	Nov. 30	194**	1944
1945	May 1	June 15	46	May 1	Sept. 24	147	1945
1946	May 1	June 11	42	May 1	Aug. 19	111	1946
1947***	May 1	June 8	39***	May 1	Aug. 17	109***	1947
1948	May 1	June 1	32	May 1	July 11	72	1948
1949	May 1	June 3	34	May 1	July 12	73	1949
1950	May 1	June 1	32	May 1	July 5	66	1950
1951	May 1	May 28	28†	May 1	June 25	56	1951
1952	May 14	June 8	26 -	May 14	July 12	58	1952
1953	May 17	June 9	24 -	May 17	July 7	52	1953
1954	May 16	June 5	21 -	May 16	July 12	58	1954
1955	May 12	June 4	24 -	May 12	Aug. 4	84	1955

NOTE: - All dates given are for the legal season. Fishing times given are actual periods of fishing, with allowance made in certain years for delays in fishing due to strikes and disputes. Closure generally at midnight of dates given.

- Does not include special post-season open fishing periods in sub-areas.

*Fleet tied-up voluntarily until April 1.

**Fleet tied-up until May 20 in protest against OPA ceiling prices.

***Seattle fleet largely tied-up until July 1, due to crew share dispute.



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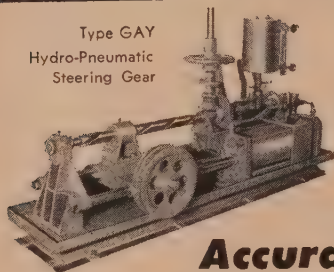
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1955 -HALIBUT ARRIVALS AT ALASKA PORTS* - 1955

(Data in Pounds)

MONTH	Ketchikan	Wrangell	Petersburg	Sitka	Juneau	Pelican	Misc. S. E. Alaska	Central† Alaska	TOTAL
May	690,000	98,000	1,148,000	319,000	816,000	534,000	163,000	661,000	4,429,000
June	1,531,000	163,000	1,158,000	446,000	1,076,000	1,309,000	108,000	1,336,000	7,127,000
July	769,000	2,000	516,000	155,000	254,000	702,000	4,000	2,066,000	4,468,000
August	795,000	24,000	439,000	94,000	452,000	99,000	92,000	674,000	2,669,000
September	4,000	4,000	82,000	15,000	25,000	16,000	---	289,000	435,000
October	---	---	40,000	2,000	10,000	---	---	---	52,000
November	---	---	12,000	1,000	2,000	---	---	---	15,000
December**	---	---	---	---	41,000	---	---	---	41,000
TOTAL	3,789,000	291,000	3,395,000	1,032,000	2,676,000	2,660,000	367,000	5,026,000	19,236,000
Previous Years									
1954	5,611,000	376,000	4,117,000	2,382,000	3,382,000	3,040,000	585,000	3,408,000	22,901,000
1953	4,823,000	368,000	2,847,000	1,662,000	1,706,000	2,829,000	214,000	3,625,000	18,074,000*
1952	7,696,000	430,000	3,022,000	2,023,000	2,645,000	2,244,000	139,000	2,661,000	20,860,000
1951	5,170,000	496,000	2,869,000	1,985,000	2,386,000	2,294,000	192,000	3,642,000	19,034,000
1950	6,992,000	479,000	3,140,000	3,103,000	3,823,000	3,351,000	75,000	4,372,000	25,265,000
1949	7,628,000	499,000	2,675,000	2,008,000	2,473,000	2,102,000	41,000	4,689,000	22,115,000
1948	7,700,000	716,000	2,548,000	2,990,000	2,797,000	2,362,000	114,000	4,742,000	23,969,000
1947	7,503,000	643,000	2,828,000	2,634,000	5,432,000**	---	---	3,389,000	22,429,000
1946	9,918,000	699,000	2,943,000	2,684,000	4,363,000**	---	---	2,279,000	22,886,000
1945	2,277,000	585,000	2,161,000	2,773,000	4,363,000**	---	---	2,221,000	20,887,000
1944	9,554,962	1,008,312	2,486,084	2,694,073	3,540,637	---	---	2,569,043	21,853,111
1943	7,450,730	727,157	1,936,825	1,691,697	2,289,947	---	---	---	14,096,356
1942	5,749,469	469,037	1,559,221	834,046	1,816,148	---	---	---	10,169,162
1941	3,367,567	375,135	1,463,801	2,173,697	1,616,928	---	---	---	8,998,580
1940	3,798,134	400,735	1,718,490	1,370,412	1,984,511	---	---	---	9,481,893
1939	2,263,927	279,660	1,460,190	931,557	2,001,999	---	---	---	6,897,208
1938	2,828,111	414,928	1,965,843	906,852	2,039,814	---	---	---	8,220,752
1937	3,642,996	590,834	1,352,807	893,602	1,832,533	---	---	---	8,646,993
1936	3,556,364	494,221	1,979,813	945,933	1,541,674	---	---	---	8,654,364
1935	3,752,488	112,060	474,672	667,811	1,341,864	---	---	---	6,538,114
1934	3,155,474	284,950	1,002,792	1,172,264	1,463,761	---	---	---	7,132,059

*Landings by Canadian vessels in Alaska included which were 2,108,000 in 1955, 2,132,000 in 1954 and 1,041 in 1953.

† Port Williams, Kodiak, Cordova, Seldovia, Anchorage, Seward, Sand Point.

** International Pacific Halibut Commission tagging.

NOTE: - 1955 figures of the International Pacific Halibut Commission are preliminary and subject to further correction.

24 days of fishing, as against 21 days the year before, nevertheless came far too early. The area's catch during the main season was short of the quota by 4,000,000 lbs., an unprecedented margin of error.

Failure of the commission's staff to come closer to the mark was

attributed to the extremely bad weather prevailing during the final week of the season, virtually stopping production, but so late that extension could not be granted because of the impossibility of notifying the fleet.

• Availability of fish was another

factor in restraint of volume. They just weren't there; or weren't hooking-on normally. Whether fishing was poor because of scarcity or because the weather that hindered fishing disturbed the fish also is a moot question.

Whatever the cause, this remains: it took more fishing to fill the hold

1955 -Halibut Arrivals at British Columbia Ports* - 1955

(Pounds)

MONTH	Prince Rupert Butedale†	New Westminster Vancouver, Namu	District No. 3 and Victoria	Total Canadian Vessels	American Vessels at Prince Rupert	GRAND TOTAL
May	4,028,000	1,854,000	1,390,000	7,272,000	578,000	7,850,000
June	4,849,000	1,937,000	388,000	7,174,000	1,261,000	8,435,000
July	1,479,000	584,000	---	2,063,000	416,000	2,479,000
August	1,881,000	1,199,000	49,000	3,129,000	432,000	3,561,000
September	68,000	49,000	---	117,000	64,000	181,000
October	34,000	4,000	---	38,000	---	38,000
November	21,000	1,000	---	22,000	---	22,000
December**	---	30,000	---	30,000	---	30,000
TOTAL	12,360,000	5,658,000	1,827,000	19,845,000	2,751,000	22,596,000
Previous Years						
1954	15,289,000	6,712,000	3,252,000	25,253,000	4,126,000	29,379,000
1953	17,894,000	4,979,000	1,774,000	24,647,000	1,989,000	26,636,000
1952	19,275,000	2,662,000	1,653,000	23,590,000	3,006,000	26,596,000
1951	15,717,000	2,819,000	1,923,000	20,459,000	4,381,000	24,840,000
1950	15,237,000	1,689,000	1,888,000	18,814,000	3,684,000	22,498,000
1949	13,745,000	2,129,000	2,189,000	18,063,000	4,205,000	22,268,000
1948	13,665,000	2,641,000	2,172,000	18,478,000	2,479,000	20,957,000
1947	17,868,000	4,298,000	1,819,000	23,985,000	2,585,000	26,570,000
1946	15,117,000	2,023,000	896,000	18,036,000	4,378,000	22,413,000
1945	11,606,000	2,340,000	1,163,000	15,109,000	4,571,000	19,680,000
1944	8,457,460	3,604,517	1,218,985	13,280,962	5,444,672	18,725,634
1943	6,381,348	5,155,435	1,331,575	12,907,123	2,337,126	25,018,553
1942	5,910,928	4,035,866	1,104,459	11,201,891	13,415,795	24,467,048
1941	8,625,079	3,139,021	1,014,192	12,959,499	10,033,720	28,812,612
1940	9,310,667	1,999,314	1,002,401	12,683,872	11,210,740	25,632,122
1939	9,904,289	3,018,504	445,500	13,465,162	9,319,026	22,687,319
1938	8,619,526	2,794,557	586,619	12,194,669	7,324,178	19,343,399
1937	9,026,372	2,333,370	377,796	11,765,314	7,015,057	18,773,489
1936	8,619,526	2,054,167	399,200	10,584,653	6,205,377	16,772,209
1935	7,636,704	2,246,196	349,300	10,206,054	6,927,581	17,159,781
1934	7,946,499	1,513,273	271,600	9,731,372	8,591,983	18,323,355

*Does not include landings by Canadian vessels in Alaska of 2,108,000 in 1955, 2,132,000 in 1954, 1,041,000 in 1952 or of landings in the State of Washington of 245,000 in 1955 or 154,000 in 1954 and of 50,000 in 1953.

† Includes landings from minor British Columbia ports.

**International Pacific Halibut Commission tagging. NOTE: - 1955 figures of the International Pacific Halibut Commission are preliminary and subject to further corrections.

HALIBUT

PERCENTAGE DIVISIONS OF CATCH BETWEEN FLEETS

Year	CANADIAN			AMERICAN			Year
	Area 2	Area 3	All Areas	Area 2	Area 3	All Areas	
1955	45.5	30.8	37.6	54.5	69.2	62.4	1955
1954	47.6	29.9	38.9	52.4	70.1	61.1	1954
1953	55.8	28.0	42.9	44.2	72.0	57.1	1953
1952	56.1	24.2	39.6	43.9	75.8	60.4	1952
1951	53.9	19.6	38.0	46.1	80.4	62.0	1951
1950	52.7	15.6	32.8	47.3	84.4	67.2	1950
1949	51.4	17.9	33.7	48.6	82.1	66.3	1949
1948	51.7	18.0	33.6	48.3	82.0	66.4	1948
1947	62.3	25.3	43.7	37.7	74.6	56.3	1947
1946	50.7	13.0	30.7	49.3	87.0	69.3	1946
1945	47.0	12.2	28.0	53.0	87.8	72.0	1945
1944	42.7	8.2	25.0	57.3	91.8	75.0	1944
1943	44.5	5.8	24.1	55.5	94.2	75.9	1943
1942	39.0	7.7	22.2	61.0	92.3	77.8	1942
1941	44.2	8.4	24.7	55.8	91.6	75.3	1941
1940	43.5	5.9	23.8	56.5	94.1	76.2	1940
1939	44.8	10.0	26.5	55.2	90.0	73.5	1939
1938	41.3	10.4	24.7	58.7	89.6	75.3	1938
1937	42.6	7.5	23.8	57.4	92.5	76.2	1937
1936	38.8	7.0	21.7	61.2	93.0	78.3	1936
1935	40.8	5.3	21.3	59.2	94.7	78.7	1935
1934	40.2	3.0	20.5	59.8	97.0	79.5	1934
1933	33.9	2.7	17.7	66.1	97.3	82.3	1933
1932	27.1	2.0	14.4	72.9	98.0	85.6	1932

than usual; and weather made it take a lot more than a week to get-in seven days of fishing.

Despite the relatively light landings, and the evident fact that production would be far short of 1954 total, prices were low. This is where dealer determination came in—determination not to get caught in a too-high-to-sell position again; and perhaps to make back some of those bucks dropped in the spring Halibut Clearance Sales.

On the average, prices ran about a nickel a pound under those of a year before. Whales were firm for the "portionizing" trade, and dealers complained that too often the weigh-out of large fish fell far short of hailings.

• Amount of halibut frozen in 1955 was less than usual for several reasons: (1) because the catch was less; (2) because the fishing season was longer, giving more time in which to sell fresh; (3) because lower prices stimulated fresh sales; (5) because the non-quota sub-areas did not produce in volume comparable with the previous year, when first fishing found the crop heavy.

1955--Catch by Seasons and Areas-- 1955

		SEASON			
		First	Second	Third	Permit
Area 1A	South of Heceta Head	402,000	---	---	23,000
Area 1B	Heceta Head - Willapa Bay	122,000	---	---	90,000
Area 2	Willapa Bay - Cape Spencer	22,203,000	5,302,000	---	1,156,000
Area 3A	Cape Spencer - Shumagin Is.	27,399,000	1,458,000	---	---
Area 3B	West of Shumagin Is.	---	---	933,000	---

• American halibut producers attained new stature in 1955 when for the first time one of their number became a member of the international commission which administers and conserves the resource under treaty

between the United States and Canada.

Capt. Matt Madsen, master of the fishing vessel *Ilene*, was appointed a member of the International Pacific Halibut Commission. Capt. Harold Helland of Canada had held a post on the commission for some time, but this was the first time that American fishermen had been represented by the commission by one of their own calling.

Captain Madsen succeeded Edward W. Allen, Seattle attorney, who had given greatly of his time and intelligence since his appointment to the commission in 1932. Mr. Allen, who also had served in the interim on the International Pacific Salmon Fisheries Commission, controlling the Sockeye salmon fishery originating on the

OREGON AND CALIFORNIA HALIBUT LANDINGS 1955

Month	California Pounds	Oregon Pounds
May	54,000	237,000
June	47,000	122,000
July	14,000	55,000
August	21,000	89,000
September	1,000	25,000
October	1,000	---
November	4,000	---
TOTAL	142,000	528,000

NOTE: - 1955 figures of the International Pacific Halibut Commission are preliminary and subject to further correction, particularly California's which include some estimation.

HALIBUT FREEZING IN CANADA BY MONTHS

Year	(Pounds)											TOTAL
	Jan.	Feb.	March	April	May	June	July	August	September	October	November	
1943	282,093	296,651	379,829	573,065	2,311,086	2,630,088	654,403	683,421	1,149,085	175,542	100,641	9,322,567
1944	282,698	273,600	348,847	86,289	314,432	5,465,098	3,232,596	802,380	499,926	436,090	171,886	12,109,247
1945	394,811	222,238	240,413	220,018	3,489,342	3,408,682	3,408,682	645,187	924,675	924,671	623,475	14,864,672
1946	183,346	344,076	571,122	10,869	4,558,950	3,798,912	849,659	1,403,497	335,440	174,361	304,517	12,700,334
1947	332,759	217,645	358,022	167,994	6,059,714	4,782,689	2,186,016	2,575,403	287,595	206,741	52,711	17,245,289
1948	132,000	68,000	186,000	21,000	7,623,000	4,530,000	1,541,000	210,000	276,000	56,000	182,000	14,825,000
1949	30,000	7,000	21,000	49,000	7,821,000	4,990,000	1,878,000	402,000	85,000	340,000	43,000	15,675,000
1950	10,000	41,000	41,000	260,000	8,953,000	4,991,000	2,039,000	392,000	90,000	321,000	237,000	17,375,000
1951	16,000	42,000	32,000	87,000	11,499,000	3,071,000	560,000	1,109,000	164,000	44,000	7,000	16,652,000
1953	79,000	136,000	119,000	165,000	5,662,000	9,498,000	2,487,000	2,175,000	222,000	77,000	15,000	20,638,000
1954	49,000	112,000	181,000	110,000	6,367,000	9,266,000	2,696,000	2,951,000	262,000	130,000	91,000	22,231,000
1955	102,000	128,000	186,000	98,000	5,077,000	4,621,000	7,641,000	2,312,000	1,739,000	*	*	21,904,000

NOTE: - All figures in accordance with latest reports.

* Data not available.

Source: Dominion Bureau of Statistics - Ottawa, Canada.

(2) Less than three firms reported, therefore the data may not be shown.

SIZE OF HALIBUT FLEET

(INCLUDES REGULAR HALIBUT BOATS ONLY)

YEAR	UNITED STATES FLEET				CANADIAN FLEET				COMBINED FLEETS			
	Area 2 #of Boats	Area 2 #of Men	Area 3 #of Boats	Area 3 #of Men	Area 2 #of Boats	Area 2 #of Men	Area 3 #of Boats	Area 3 #of Men	Area 2 #of Boats	Area 2 #of Men	Area 3 #of Boats	Area 3 #of Men
1943	247	1,037	107	942	162	767	3	24	409	1,804	110	966
1944	278	1,056	84	753	278	831	4	34	485	1,887	88	767
1945	316	1,253	97	837	175	867	3	26	491	2,120	100	863
1946	373	1,373	116	921	187	952	5	41	560	2,325	121	962
1947	350	1,302	119	887	215	1,168	5	40	565	2,470	124	927
1948	403	1,496	139	1,095	249	1,221	5	39	652	2,717	144	1,134
1949	374	1,452	149	1,134	225	1,153	5	41	599	2,605	154	1,175
1950	426	1,654	150	1,147	235	1,210	5	39	661	2,864	155	1,186
1951	394	1,574	148	1,091	270	1,346	8	66	664	2,920	156	1,156
1952	295	1,243	134	885	233	1,211	8	64	528	2,454	142	949
1953	273	1,147	139	883	229	1,151	20	159	502	2,298	159	1,042
1954	289	1,238	121	720	224	1,149	20	167	513	2,387	141	887
1955	281	1,209	122	698	189	959	25	203	470	2,168	147	901

Fraser River, had been appointed a member of the International North Pacific Fisheries Commission and had asked to be relieved of his halibut commission duties.

• With the approach of the 1956 halibut season, thoughtful elements in the industry were giving serious attention to the desirability of technological research as an approach to some of the industry's problems of quality control and distribution.

Questions being asked in connection with this proposed study ran along these lines:

To what extent is quality to blame for the wild swings in halibut economy?

If quality is to blame, is the fault aboard the vessel? Or in the freezing and storage? Or in distribution and



retailing?

Is the halibut industry making the most of modern technology in producing fish of the best quality, and protecting that quality all the way to the consumer?

Does the trend toward portionized halibut require different methods of producing and handling from those

Capt. Matt Madsen, whose appointment to the International Pacific Halibut Commission in 1955 modified American policy and put a practical fisherman in the American membership.

used in the bulk fish trade?

The industry was asking these problems, and seeking a means of answering them, at a time when inventory was negligible, rather than under the spur of immediate economic necessity.

Holdings of Frozen Halibut in Canada by Months

Year	(Pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	September	October	November	December	
1943	5,033,262	4,320,016	3,662,970	2,023,376	1,678,527	3,113,646	4,822,529	4,874,661	4,971,853	3,715,845	4,136,536	3,494,191	1943
1944	2,503,628	2,039,395	1,507,225	1,097,699	792,549	728,024	3,905,781	6,675,093	6,368,948	6,354,092	5,392,449	4,861,059	1944
1945	4,222,080	2,970,513	2,605,945	1,596,132	1,193,618	4,430,285	7,065,500	6,462,794	6,146,324	5,305,732	4,538,808	2,874,540	1945
1946	2,348,945	1,472,192	1,188,634	717,256	237,978	5,499,251	9,561,055	9,260,311	9,366,369	8,076,480	7,067,600	6,298,440	1946
1947	5,479,805	4,176,190	3,592,122	2,680,602	1,282,144	7,140,603	10,209,201	11,994,470	13,411,286	11,517,561	9,836,666	9,080,400	1947
1948	8,296,000	6,613,000	5,254,000	3,348,000	2,312,000	9,108,000	10,717,000	11,216,000	9,362,000	8,610,000	7,418,000	5,687,000	1948
1949	4,749,000	3,949,000	2,867,000	1,017,000	445,000	7,972,000	9,959,000	11,957,000	10,792,000	9,523,000	8,463,000	6,781,000	1949
1950	5,346,000	3,250,000	2,162,000	1,116,000	689,000	7,329,000	10,755,000	11,273,000	10,428,000	8,475,000	8,429,000	7,020,000	1950
1951	6,450,000	5,398,000	4,349,000	2,725,000	2,433,000	13,198,000	14,452,000	13,550,000	13,445,000	12,883,000	10,791,000	9,212,000	1951
1952	7,433,000	5,098,000	3,747,000	2,367,000	1,449,000	7,662,000	12,129,000	13,420,000	12,544,000	12,569,000	10,439,000	8,077,000	1952
1953	7,812,000	5,451,000	3,812,000	2,464,000	1,511,000	7,504,000	16,583,000	15,434,000	17,065,000	14,758,000	12,394,000	11,443,000	1953
1954	10,082,000	7,696,000	5,882,000	3,604,000	1,728,000	6,912,000	11,353,000	12,935,000	14,772,000	13,619,000	12,145,000	11,691,000	1954
1955	10,422,000	8,965,000	7,378,000	5,037,000	3,274,000	7,682,000	10,198,000	11,716,000	12,518,000	11,267,000	*	*	1955

NOTE: - All figures in accordance with latest reports.

* Data not available.

Source: Dominion Bureau of Statistics - Ottawa, Canada.



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Caution resulting from unhappy experience in the marketing of 1954 production, plus a shortage of fish in important categories, combined to curtail production of Pacific frozen fish by 20% in 1955.

Every classification, and every regional division, shared in the cut-back, which saw Pacific frozen fish production drop to the lowest level since 1941.

• Bitter marketing experience early in 1955, when sales of the 1954 frozen halibut production struck a reef and went to pieces, sent Pacific shippers of frozen fish into the 1955 producing season with utmost caution.

Their determination that "it must never happen again" was needless, for decline in the production of halibut

and scarcity of salmon in the areas where most of the freezing is done, imposed curtailment by necessity as well as by caution.

With about 10 million pounds less halibut produced in 1955, the industry froze around 7 million pounds less.

Salmon into freezer was 7.8 million pounds less than in 1954, due essen-

tially to poor trolling in Alaska and British Columbia. Pack for the year was the smallest since the war.

Fillet cutting dipped sharply in 1955 from the high level of the year before, but held close to the level looked upon as normal for the years prior to 1954.

• Remarkable rise in the freezing of shellfish, particularly crab products

1955 - ALASKA CUSTOM COLD STORAGE FREEZINGS - 1955

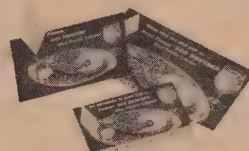
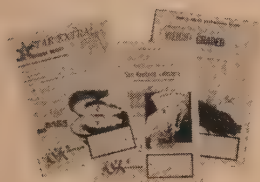
Company	(Pounds)						Grand Total
	Location	Halibut	Salmon	Sablefish	Fillets	Miscellaneous	
Alaska Fish & Farm Products	Anchorage	78,451	48,259	...	...	...	126,710
Aleutian Cold Storage Co. 9	Sand Point	1,900,000	...	...	...	...	1,900,000
Cordova Fish & Cold Storage Co.	Cordova	548,485	...	...	...	...	548,485
Juneau Cold Storage Co.	Juneau	1,076,338	131,260	450,360	...	4,224	1,662,182
Ketchikan Cold Storage Co.	Ketchikan	553,479	438,052	28,549	...	3,296	1,023,376
Pelican Cold Storage Co.	Pelican City	2,561,861	1,594,437	151,801	...	65,872	4,373,971
Petersburg Cold Storage Co.	Petersburg	2,199,885	186,047	786,591	106,665	13,569	3,292,757
Sitka Cold Storage Co.	Sitka	982,227	559,932	40,531	6,948	17,878	1,607,516
Wrangell Cold Storage Co.	Wrangell	274,000	372,000	27,500	...	...	673,500
TOTAL		10,174,726	3,329,987	1,485,332	113,613	104,839	15,208,497

1955 - FILLET IMPORTS TO U.S. - 1955

Country	(Pounds)											Total
	Dec. '54	Jan. '55	Feb.	March	April	May	June	July	August	Sept.	Oct.	
Canada	4,369,377	8,760,019	6,868,277	8,344,137	7,469,186	5,634,530	6,981,832	10,143,300	10,528,645	9,017,918	11,765,000	89,882,221
Denmark	15,124	94,833	35,622	1,021,957	991,506	469,941	657,676	147,222	122,425	216,608	22,000	3,794,914
England	...	840	550	10,238	...	...	15	84	500	1,500	...	13,727
France	...	...	...	...	...	24,178	35,385	127,500	...	...	...	187,063
W.Germany	...	298,471	91,850	156,000	247,646	334,755	61,000	177,614	113,180	144,500	310,000	1,935,016
Holland	16,295	28,650	21,730	75,000	53,920	15,000	32,583	...	52,000	...	...	295,178
Iceland	1,814,367	3,254,872	1,017,582	3,972,072	1,403,158	518,670	312,166	1,767,544	226,036	864,618	2,973,000	18,124,085
Norway	14,776	561,392	495,235	68,520	810,407	202,424	104,279	175,896	638,312	29,700	741,000	3,841,941
Misc.	...	1,610	3,065	52,430	1,170	2,800	148,122	115,370	295,380	135,188	163,000	916,135
TOTAL	6,229,939	13,000,687	8,533,911	13,700,354	10,976,993	7,202,298	8,333,058	12,654,530	11,976,478	10,410,032	15,974,000	118,992,280



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FROZEN

1955 -PACIFIC FROZEN FISH- 1955

COMPANY	(Pounds)						
	Plant Location	Halibut, lbs.	Salmon, lbs.	Sablefish, lbs.	Fillets, lbs.	Miscellaneous, lbs.	TOTAL LBS.
ALASKA							
Alaska Fisheries, Inc.	Juneau	1,000,000	...	300,000	...	...	1,300,000
Alaska Fish & Farm Products Co.	Anchorage	78,451	48,259	...	...	...	126,710
Aleutian Cold Storage Company	Sand Point	1,900,000	...	...	...	...	1,900,000
Booth Fisheries Corporation	S. E. Alaska	1,348,000	383,000	60,000	...	...	1,791,000
Cordova Fish & Cold Storage Company	Cordova	548,485	...	...	...	...	548,485
Kayler-Dahl Fish Company	Petersburg	1,250,000	300,000	750,000	...	...	2,300,000
Ketchikan Cold Storage Company*	Ketchikan	549,994	396,732	28,549	...	3,296	978,571*
McCallum-Legaz Fish Company	Sitka	300,000	50,000	28,549	...	...	350,000
Narrows Packing Company	Halibut Cove	...	16,016	...	...	...	16,016
New England Fish Company	S. E., Alaska	3,100,000	390,000	30,000	215,000	...	3,735,000
Oxenberg Bros.	Ketchikan	3,485	41,320	...	...	...	44,805
	Juneau	1,403	63,510	31,812	...	...	96,725
	Pelican	655	89,000	...	...	...	89,655
Pacific Pearl Frozen Foods, Inc.	Hydaburg	64,365	81,575	...	...	...	145,940
Pelican Cold Storage Company*	Pelican	1,035,534	602,711	122,801	...	65,872	1,826,918*
Petersburg Cold Storage Company*	Petersburg	343,885	60,948	164,238	106,665	13,569	689,305*
E. C. Phillips*	Ketchikan	990,000	...	104,000	...	...	1,094,000*
San Juan Fishing & Packing Company	Cordova	145,769	...	...	...	...	145,769
Sebastian-Stuart Fish Company	Juneau	133,000	116,000	8,500	...	...	259,500
	Pelican	136,000	176,000	...	...	...	312,000
Seldovia Bay Packing Company	Seldovia	684,229	...	...	...	...	684,229
Sitka Cold Storage Company*	Sitka	575,967	394,512	40,531	6,948	13,587	1,031,545*
Vita Food Products Company	S. E. Alaska	120,932	453,343	721,359	...	...	1,299,925
Washington Fish & Oyster Company	Port Williams	1,720,000	...	...	...	...	1,720,000
Whiz Fish Products Company	Ketchikan	110,000	209,000	...	...	...	319,000
	Pelican	183,000	216,000	...	...	...	399,000
Wrangell Cold Storage Company	Wrangell	274,000	372,000	27,000	...	...	673,500
Total Alaska		16,597,154	4,459,926	2,389,290	328,613	102,615	23,877,598
BRITISH COLUMBIA							
Booth Fisheries Corporation	Prince Rupert	708,000	149,000	17,000	76,000	...	950,000
British Columbia Packers Ltd.	All Points	5,022,000	3,032,000	342,000	...	725,000	9,121,000
	Vancouver	1,982,540	2,517,052	2,894	280,469	162,755	4,945,710
Canadian Fishing Company	Prince Rupert	1,829,021	933,250	80,648	396,442	66,804	3,306,165
	Butedale	552,622	185,842	244,119	...	9,098	991,681
Fishermen's Cooperative Federation	Vancouver	500,000	350,000	...	...	100,000	950,000
	Prince Rupert	3,500,000	2,500,000	250,000	300,000	100,000	6,650,000
San Juan Fishing & Packing Company	Prince Rupert	702,312	396,675	...	...	...	1,098,987
	Vancouver	514,888	31,329	...	...	...	546,217
Total British Columbia		15,311,383	10,095,148	936,661	1,052,911	1,163,657	28,559,760
PUGET SOUND							
Booth Fisheries Corporation	Seattle	1,198,000	412,000	254,000	427,000	323,000	2,614,000
Chase Fish Company	Seattle	66,000	19,000	1,500	2,300	13,000	101,800
Eardley Fisheries Company	Seattle	680,000	93,000	207,000	2,063,000	28,000	3,071,000
McCallum-Legaz Fish Company	Seattle	700,000	100,000	150,000	50,000	...	1,000,000
New England Fish Company	Puget Sound	1,700,000	250,000	75,000	...	...	2,025,000
San Juan Fishing & Packing Company	Seattle	2,061,670	1,184,000	461,116	222,863	74,149	4,003,798
Seattle Sea Foods Company	Seattle	1,500,000	150,000	100,000	...	...	1,750,000
Sebastian-Stuart Fish Company	Seattle	441,000	24,000	...	...	5,000	470,000
Washington Fish & Oyster Company	Seattle	858,575	962,495	185,010	28,149	103,286	2,137,515
Whiz Fish Products Company	Seattle	600,000	343,000	200,000	...	...	1,143,000
Miscellaneous	Puget Sound	1,253,000	497,000	4,800	120,000	168,000	2,042,800
Total Puget Sound		11,058,245	4,034,495	1,638,426	2,913,312	714,435	20,358,913
COLUMBIA RIVER & OREGON							
Columbia River Packers Association	Astoria	276,224	444,345	39,692	465,137	60,158	1,285,556
New England Fish Company	Columbia River	...	110,000	50,000	215,000	25,000	400,000
Miscellaneous		...	...	28,308	441,749	38,117	508,174
Total Columbia River & Oregon		276,224	554,345	118,000	1,121,886	123,275	2,193,730
CALIFORNIA							
Hunter & Foland Fish Company	Eureka	10,279	19,500	63,850	260,000	...	353,629
Miscellaneous		52,721	946,500	163,749	1,330,713	1,987,065	4,480,748
Total California		63,000	966,000	227,599	1,590,713	1,987,065	4,834,377
GRAND TOTALS		43,306,006	20,109,914	5,309,976	7,007,435	4,091,047	79,824,378

*Custom-frozen fish, credited to other companies listed in this table, are omitted from lines marked *.

SALMON FREEZING IN CANADA BY MONTHS

Year	(Pounds)												TOTAL
	Jan.	Feb.	March	April	May	June	July	August	September	October	November	December	
1943	42,410	76,821	1,722	1,410	46,691	579,333	1,289,797	1,842,880	3,306,198	4,693,989	2,738,670	194,089	14,814,010
1944	190,468	366,346	199,226	34,334	35,166	799,534	1,736,542	2,902,804	3,602,202	3,489,092	490,764	216,862	14,063,340
1945	419,230	95,244	360,661	19,945	158,305	822,475	822,475	3,789,008	4,264,479	4,264,479	1,313,675	401,122	16,731,098
1946	18,904	520,509	902,832	43,216	114,952	1,213,867	2,131,929	3,098,060	3,709,790	6,134,139	3,262,982	421,969	21,573,149
1947	271,572	221,343	270,066	41,620	342,709	921,265	2,328,428	2,659,952	2,628,493	6,477,323	1,873,407	48,000	18,084,178
1948	443,000	147,000	7,000	15,000	243,000	1,498,000	2,237,000	2,626,000	2,771,000	10,387,000	2,009,000	291,000	22,674,000
1949	157,000	22,000	33,000	107,000	242,000	1,935,000	2,961,000	4,565,000	3,917,000	7,362,000	1,463,000	24,000	22,788,000
1950	4,000	22,000	22,000	5,000	227,000	1,224,000	2,462,000	5,246,000	8,678,000	7,149,000	702,000	8,000	25,749,000
1951	25,000	72,000	2,000	11,000	229,000	1,114,000	2,677,000	4,329,000	4,690,000	6,989,000	1,311,000	16,000	21,465,000
1952	10,000	29,000	100,000	80,000	395,000	1,804,000	3,227,000	5,244,000	3,034,000	2,151,000	1,508,000	18,000	17,600,000
1953	28,000	72,000	30,000	86,000	349,000	1,512,000	2,934,000	4,749,000	5,149,000	6,872,000	665,000	38,000	17,149,000
1954	15,000	70,000	353,000	29,000	204,000	709,000	3,138,000	2,932,000	4,333,000	5,051,000	512,000	28,000	17,374,000
1955	52,000	32,000	50,000	43,000	107,000	914,000	3,581,000	4,165,000	2,831,000	*	*	*	11,775,000

NOTE: - All figures in accordance with latest reports. *Data not available.

Source: Dominion Bureau of Statistics, Dept. of Trade & Commerce

1955 - PACIFIC FROZEN SHELLFISH - 1955

Company	Location	(Pounds)						
		Dungeness Crabmeat Lbs.	King Crabmeat Lbs.	Crab Frozen in Shell	Shrimp Meat Lbs.	Clams Shucked Lbs.	Oysters Shucked	Total Shellfish
Alaska Fisheries Inc.	Juneau	...	...	...	100,000	...	...	100,000
Booth Fisheries Corporation	Seattle	...	...	...	...	...	...	85,000
Brenner, J. J. Oyster Co.	Olympia	...	...	...	...	...	85,000	40,000
Canadian Fishing Company, Ltd.	Vancouver	2,850	...	...	...	...	40,000	21,582
Chase Fish Company	Seattle	750	...	...	8,846	...	9,886	2,650
Coast Oyster Company	Seattle	...	...	...	...	800	1,100	79,314
Coastal Glacier Seafoods Co.	Hoonah	62,860	...	...	...	...	79,314	62,860
Cordova Fish & Cold Storage	Cordova	250,000	...	...	...	...	...	250,000
Fishermen's Cooperative Federation	Prince Rupert	1,000	...	...	2,000	...	...	3,000
Fishermen's Cooperative Federation	Vancouver	200	...	...	600	...	300	1,100
Hunter & Folland Fish Co.	Eureka	3,500	...	...	...	...	...	3,500
Kaakinen Fish Company	Westport	32,110	...	...	...	...	...	32,110
Kayler-Dahl Fish Company	Petersburg	30,000	...	...	...	...	...	110,000
Ketchikan Cold Storage	Ketchikan	45,490	...	...	80,000	...	...	45,490
King Crab, Inc.	Kodiak	...	69	156,790*	...	...	...	156,859
New England Fish Company	Newport	11,000	...	...	...	...	...	11,000
Pacific Pearl Frozen Foods	Hydaburg	18,540	...	31,850	5,520	...	...	55,910
Queen Charlotte Cannery	Masset	231,854	...	513,658	...	...	...	745,512
Seattle Sea Foods Company	Seattle	21,000	...	...	...	...	...	21,000
Shields, J. E. Company	Bering Sea	...	47,628	42,072*	...	...	...	89,700
Wakefield Deep Sea Trawlers	Western Alaska	...	758,700	477,400*	...	...	...	1,236,100
Washington Fish & Oyster Company	Seattle	14,488	...	...	577	...	1,002	16,067
Washington Fish & Oyster Company	Port Williams	...	20,000	20,000*	...	...	...	40,000
Whiz Fish Products	Seattle	40,000	...	...	...	...	...	40,000
TOTAL		765,642	826,397	1,241,770	197,543	800	216,602	3,248,754

*King Crab.

and shucked oysters, was an outstanding feature of the frozen fish business of the Pacific Coast in 1955.

This gain was not due to any extraordinary catch—although in general shellfish was in good supply—but traces directly to improved technology in packing, plus improved mechan-

dizing methods and consumer acceptance.

Weakness in the canned crab market tended to divert crabs into refrigerated channels—chilled as well as frozen; and the consumers showed real enthusiasm for the offerings.

Production of frozen Dungeness

crab meat reached 765,000 lbs., while King crabmeat exceeded this amount with 826,000 lbs.

In addition to sales of frozen crab meat and fresh crab in the shell, there has been a strong trend toward freezing crab in the shell. This method of refrigeration accounted for 1,241,000

1955 -- Washington Fish Freezing by Months -- 1955

ITEM	(Pounds)												
	Dec. '54	Jan. '55	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	TOTAL
FROZEN FISH													
Bait & Animal Food	35,890	29,515	13,300	24,000	13,000	13,000	22,000	41,000	186,000	311,000	256,000	47,000	991,705
Fillet and Steaks:													
Blocks and Slabs	11,716	310	...	51,000	6,000	1,000	2,000	4,000	6,000	7,000	4,000	1,000	94,026
Cod	4,103	48,243	159,500	164,000	104,000	85,000	93,000	92,000	58,000	37,000	24,000	3,000	871,846
Halibut	...	...	...	...	...	175,000	113,000	176,000	89,000	38,000	1,000	...	592,000
Lingcod	4,287	2,345	11,200	12,000	19,000	26,000	24,000	21,000	26,000	13,000	11,000	...	169,832
Ocean Perch Pacific	...	...	78,000	98,000	31,000	49,000	70,000	77,000	60,000	86,000	60,000	25,000	634,000
Rockfish	1,340	1,509	7,400	...	16,000	3,000	...	...	1,000	3,000	18,000	4,000	55,249
Salmon	...	...	...	...	...	4,000	...	5,000	3,000	2,000	9,000	5,000	28,000
Sole	21,467	68,992	153,900	164,000	39,000	109,000	172,000	176,000	118,000	88,000	98,000	100,000	1,308,359
Other	...	12,780	47,600	...	...	...	...	2,000	1,000	...	1,000	...	64,380
Fish Sticks (Cooked & Uncooked)	...	...	...	...	...	...	3,000	...	...	...	...	...	3,000
Round, Dressed, Etc.:													
Halibut	...	...	...	...	...	1,525,000	339,000	2,160,000	3,042,000	550,000	25,000	...	9,641,000
Sablefish	1,715	...	...	1,000	3,000	4,000	33,000	172,000	152,000	623,000	673,000	173,000	1,835,715
Salmon:													
King	...	...	...	16,000	26,000	56,000	111,000	215,000	568,000	371,000	51,000	2,000	1,416,000
Silver	...	...	...	...	...	...	39,000	185,000	657,000	693,000	175,000	4,000	1,753,000
Chum	865	...	...	...	...	...	...	...	...	103,000	193,000	252,000	548,865
Other	...	...	...	...	...	...	...	21,000	34,000	3,000	34,000	...	92,000
Total Salmon:	865	...	...	16,000	26,000	56,000	150,000	421,000	1,259,000	1,170,000	453,000	258,000	3,809,865
Smelt	...	...	...	32,000	45,000	35,000	17,000	37,000	48,000	20,000	1,000	2,000	237,000
Other Fish	11,390	1,608	1,300	4,000	9,000	5,000	6,000	5,000	13,000	22,000	9,000	23,000	110,298
TOTAL FROZEN FISH	92,773	165,302	472,200	566,000	311,000	2,086,000	3,048,000	3,369,000	5,062,000	2,970,000	1,643,000	641,000	20,446,275
FROZEN SHELLFISH													
Clams and Clam Meats	365	1,489	14,000	81,000	46,000	...	...	...	...	...	...	...	142,854
Crabs and Crab Meats	43,264	38,864	41,900	16,000	10,000	44,000	12,000	2,000	31,000	27,000	41,000	7,000	314,028
Oysters	42,707	26,055	16,600	20,000	10,000	11,000	18,000	2,000	...	3,000	6,000	23,000	199,362
Shrimp:													
Raw, Headless	...	...	500	1,000	1,000	...	...	...	8,000	...	...	...	10,500
Other (Incl. Breaded)	...	5	...	...	...	...	...	...	...	...	...	...	5
Other Shellfish	1,514	2,246	12,500	3,000	1,000	...	...	...	...	...	2,000	...	22,260
TOTAL SHELLFISH	87,850	68,659	85,500	121,000	89,000	55,000	30,000	4,000	39,000	30,000	49,000	30,000	689,009
TOTAL FROZEN FISH & SHELLFISH	180,623	233,961	557,700	687,000	400,000	2,141,000	3,078,000	3,393,000	5,101,000	3,000,000	1,692,000	671,000	21,135,284

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PACIFIC FROZEN FISH

DISTRICT & YEAR	Halibut Pounds	Salmon Pounds	Filletts Pounds	Sablefish Pounds	Miscellaneous Pounds	TOTALS & Years	DISTRICT & YEAR
1946						1946	1946
Alaska	14,966,616	12,036,956	30,000	4,519,989	2,075,530	33,629,091	Alaska
British Columbia	12,782,294	14,384,544	1,972,000	1,778,855	11,486,110	42,403,803	British Columbia
Puget Sound & Wash. Coast	8,050,947	6,388,388	3,895,400	1,714,185	2,807,240	22,856,160	Puget Sound & Wash. Coast
Columbia Riv. & Ore. Coast	555,884	4,373,849	4,511,986	416,003	3,147,126	13,004,848	Columbia Riv. & Ore. Coast
California	585,807	852,370	252,064	182,810	3,394,719	5,287,770	California
TOTAL, 1946	36,941,548	38,036,107	10,661,450	8,611,842	22,910,725	117,161,672	TOTAL, 1946
1947						1947	1947
Alaska	20,638,301	10,197,755	4,597	886,535	383,473	32,110,661	Alaska
British Columbia	14,930,795	13,583,850	1,057,828	729,492	6,357,106	36,659,071	British Columbia
Puget Sound & Wash. Coast	4,933,377	4,241,310	1,658,152	921,204	1,004,330	12,758,373	Puget Sound & Wash. Coast
Columbia Riv. & Ore. Coast	618,266	1,272,508	1,681,488	60,786	985,697	4,618,745	Columbia Riv. & Ore. Coast
California	1,173,863	632,681	52,876	35,895	3,930,147	5,825,462	California
TOTAL, 1947	42,294,602	29,928,104	4,454,941	2,633,912	12,660,753	91,972,312	TOTAL, 1947
1948						1948	1948
Alaska	26,020,134	9,582,232	165,370	5,065,956	5,290	40,838,082	Alaska
British Columbia	11,512,287	15,209,533	1,650,856	1,651,028	4,210,412	34,234,116	British Columbia
Puget Sound & Wash. Coast	7,152,574	4,355,399	2,393,487	1,519,514	797,882	16,218,856	Puget Sound & Wash. Coast
Columbia Riv. & Ore. Coast	410,091	1,187,802	4,241,705	329,857		6,169,455	Columbia Riv. & Ore. Coast
California	3,365	41,200	168,167	4,834	1,728,963	1,946,429	California
TOTAL, 1948	45,098,451	30,376,166	8,619,585	8,570,289	6,742,547	99,407,038	TOTAL, 1948
1949						1949	1949
Alaska	20,914,221	12,222,337	1,309	3,772,851	271,901	37,182,619	Alaska
British Columbia	12,629,300	19,584,100	3,480,500	1,967,500	6,946,700	44,608,100	British Columbia
Puget Sound & Wash. Coast	7,535,497	5,123,763	1,192,440	1,846,314	1,088,490	16,786,504	Puget Sound & Wash. Coast
Columbia Riv. & Ore. Coast	324,527	458,280	2,567,863	289,205	121,994	3,761,869	Columbia Riv. & Ore. Coast
California	5,912	124,301	790,780	6,547	3,083,428	4,010,968	California
TOTAL, 1949	41,409,457	37,512,781	8,032,892	7,882,417	11,512,513	106,350,060	TOTAL, 1949
1950						1950	1950
Alaska	25,625,940	8,467,426	5,113	566,965	98,409	34,763,853	Alaska
British Columbia	15,081,000	23,425,000	701,789	271,848	5,393,954	44,873,591	British Columbia
Puget Sound & Wash. Coast	6,270,705	4,706,925	1,166,019	1,547,807	5,226,430	18,917,886	Puget Sound & Wash. Coast
Columbia Riv. & Ore. Coast	417,651	483,068	3,383,682	63,081	333,117	4,679,599	Columbia Riv. & Ore. Coast
California	60,000	147,753	1,897,253	57,125	2,646,797	4,754,928	California
TOTAL, 1950	47,401,296	37,230,172	7,152,856	2,506,826	13,698,707	107,989,857	TOTAL, 1950
1951						1951	1951
Alaska	19,577,948	8,780,110	6,888	3,241,556	820,473	32,427,075	Alaska
British Columbia	13,358,332	16,000,909	2,292,931	1,050,718	7,492,483	40,195,373	British Columbia
Puget Sound & Wash. Coast	7,789,536	4,314,516	2,119,910	1,791,000	2,275,577	18,290,539	Puget Sound & Wash. Coast
Columbia Riv. & Ore. Coast	291,936	735,305	3,199,153	189,694	124,761	4,540,849	Columbia Riv. & Ore. Coast
California	14,690	172,706	253,169	8,445	2,503,039	2,952,049	California
TOTAL, 1951	41,032,442	30,003,546	7,872,151	6,281,413	13,216,333	98,405,885	TOTAL, 1951
1952						1952	1952
Alaska	17,341,747	5,327,279	8,977	988,520	205,955	23,872,478	Alaska
British Columbia	12,992,587	17,351,803	7,418,334	883,769	3,720,635	42,367,128	British Columbia
Puget Sound & Wash. Coast	8,345,650	5,532,676	3,004,786	1,661,919	751,310	19,296,341	Puget Sound & Wash. Coast
Columbia Riv. & Ore. Coast	219,223	1,157,484	3,827,761	166,072	136,084	5,506,624	Columbia Riv. & Ore. Coast
California	8,676	448,647	1,907,142	72,671	4,134,131	6,571,267	California
TOTAL, 1952	38,907,883	29,817,889	16,167,000	3,772,951	8,948,115	97,613,838	TOTAL, 1952
1953						1953	1953
Alaska	19,727,501	6,399,247	46,675	2,599,418	730,465	29,503,306	Alaska
British Columbia	18,214,460	14,032,572	5,462,997	1,078,236	524,395	39,312,660	British Columbia
Puget Sound & Wash. Coast	9,473,444	6,380,981	1,654,189	1,651,734	462,602	19,622,950	Puget Sound & Wash. Coast
Columbia Riv. & Ore. Coast	389,483	630,630	2,382,420	204,842	876,081	4,283,456	Columbia Riv. & Ore. Coast
California	90,657	702,556	2,037,765	172,359	2,623,447	5,626,784	California
TOTAL, 1953	47,895,545	28,145,986	11,584,046	5,706,589	5,016,990	98,349,156	TOTAL, 1953
1954						1954	1954
Alaska	20,987,363	9,341,468	57,468	3,072,158	203,708	33,662,163	Alaska
British Columbia	16,268,341	12,354,783	4,687,477	838,571	749,663	34,898,841	British Columbia
Puget Sound & Wash. Coast	12,201,900	4,740,637	2,651,084	1,498,376	460,545	21,552,542	Puget Sound & Wash. Coast
Columbia Riv. & Ore. Coast	864,352	788,963	1,672,109	154,456	210,124	3,690,004	Columbia Riv. & Ore. Coast
California	118,292	709,173	2,192,234	234,319	3,926,655	7,180,673	California
TOTAL, 1954	50,440,248	27,935,024	11,260,372	5,797,886	5,550,693	100,984,223	TOTAL, 1954
1955						1955	1955
Alaska	16,597,154	4,459,926	328,613	2,389,290	102,615	23,877,598	Alaska
British Columbia	15,311,383	10,095,148	1,052,911	936,661	1,163,657	28,559,760	British Columbia
Puget Sound & Wash. Coast	11,058,245	4,034,495	2,913,312	1,638,426	714,435	20,358,913	Puget Sound & Wash. Coast
Columbia Riv. & Ore. Coast	276,224	554,345	1,121,886	118,000	123,275	2,193,730	Columbia Riv. & Ore. Coast
California	63,000	966,000	1,590,713	227,599	1,987,065	4,834,377	California
TOTAL, 1955	43,306,006	20,109,914	7,007,435	5,309,978	4,091,047	79,824,378	TOTAL, 1955

NOTE:—Since 1942 Steelheads have been combined with salmon. Figures given in this column cover the quantities of frozen fillets of all varieties of fish reported. British Columbia figures include only amounts directly reported by owners of the fish and do not include unreported quantities in custom freezers.

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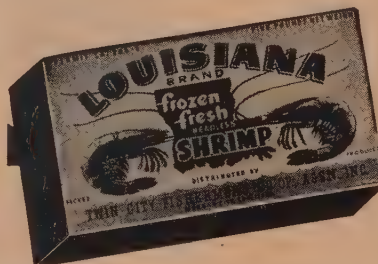
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lbs. of product in 1955, of which 695,000 lbs. was King crab.

Freezing of 216,000 lbs. of shucked oysters in 1955 marks a strong rise in the production of this item, which has gained slowly, but never before has reached this level.

● Marketing of lobsters from the Pacific Coast of Mexico under went interesting development in 1955, when the San Kenteen Corporation of Beverly Hills, Calif., was granted exclusive United States import license by the Mexican government.

The importing firm is providing specialized promotion for both customers and consumers.

MONTH	(Pounds)			1954	1953
	COOKED	UNCOOKED	TOTAL		
January	*	*	5,120,800	2,770,600	115,000
February	*	*	5,785,500	3,179,600	133,000
March	*	*	7,148,000	4,003,500	148,000
April	5,602,402	651,345	6,253,747	3,814,500	34,900
May	4,647,745	503,157	5,150,902	3,914,700	21,800
June	5,049,901	615,390	5,665,291	4,447,300	30,800
July	4,111,034	450,518	4,561,552	3,875,700	416,600
August	4,265,954	441,094	4,707,048	4,403,300	454,400
September	5,070,916	531,303	5,602,219	4,311,100	809,500
October	**	**	**	5,651,700	1,434,900
November	**	**	**	4,815,800	1,901,800
December	**	**	**	4,972,000	2,001,200
Partial Totals	28,747,952	3,192,807	49,994,859	50,159,800	7,501,900

*Segregation not available for the first quarter of the year. **Last quarter not available.

1955 - Oregon Fish Freezing by Months - 1955

ITEM	(Pounds)												TOTAL
	Dec.'54	Jan.'55	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	
FROZEN FISH													
Bait & Animal Food	...	...	27,100	47,000	57,000	80,000	283,000	14,000	182,000	11,000	29,000	20,000	750,100
Filletts And Sticks:													
Blocks and Slabs	...	...	100	3,000	1,000	1,000	1,000	1,000	3,000	...	...	...	10,100
Cod	512	...	3,600	...	3,000	...	43,000	...	...	...	...	...	50,112
Halibut	...	...	...	...	...	2,000	...	35,000	22,000	3,000	19,000	20,000	101,000
Lingcod	375	...	...	...	1,000	...	6,000	...	...	...	...	...	7,375
Ocean Perch, Pacific	12,329	7,814	22,400	46,000	58,000	8,000	5,000	2,000	...	...	1,000	...	162,543
Rockfish	1,615	936	14,000	14,000	3,000	2,000	5,000	...	2,000	...	...	2,000	44,551
Salmon	...	1,936	...	...	...	...	41,000	31,000	88,000	47,000	4,000	...	212,936
Sole	25,472	37,700	34,400	69,000	55,000	34,000	69,000	47,000	96,000	85,000	15,000	6,000	573,572
Fish Sticks (cooked and uncooked)	...	...	7,000	6,000	...	...	2,000	4,000	2,000	2,000	3,000	...	26,000
Round, Dressed, Etc:													
Halibut	...	...	...	...	...	...	8,000	1,000	87,000	...	...	...	96,000
Sablefish	1,962	...	...	8,000	3,000	5,000	41,000	20,000	26,000	15,000	2,000	3,000	124,962
Salmon:													
King	...	...	...	...	...	22,000	24,000	34,000	34,000	22,000	12,000	1,000	149,000
Silver	...	...	...	...	...	...	9,000	16,000	68,000	25,000	7,000	6,000	131,000
Chum	...	...	...	...	...	...	...	...	...	...	...	3,000	3,000
Unclassified	...	...	...	...	...	9,000	8,000	48,000	49,000	5,000	3,000	4,000	126,000
Total Salmon	...	...	...	...	...	31,000	41,000	98,000	151,000	52,000	22,000	14,000	409,000
Smelt	...	...	...	45,000	...	...	...	...	...	...	...	...	45,000
Other Fish	2,970	875	5,200	3,000	...	12,000	13,000	12,000	80,000	7,000	3,000	1,000	140,045
TOTAL FROZEN FISH	45,235	49,261	113,800	241,000	181,000	175,000	558,000	265,000	739,000	222,000	98,000	66,000	2,753,296
FROZEN SHELLFISH													
Clams and Clam Meats	...	740	...	1,000	1,000	...	...	...	...	...	...	...	3,440
Crabs and Crab Meats	12,415	10,894	10,700	22,000	7,000	4,000	3,000	...	...	...	...	...	70,009
Oysters	10,048	13,337	13,300	28,000	28,000	1,000	1,000	...	...	...	...	...	94,685
TOTAL SHELLFISH	22,463	24,971	24,700	51,000	36,000	5,000	4,000	...	...	...	...	...	168,134
TOTAL FROZEN FISH & SHELLFISH	67,698	74,232	138,500	292,000	217,000	180,000	562,000	265,000	739,000	222,000	98,000	66,000	2,921,430

BONNEVILLE DAM SALMON ESCAPEMENT

Year	Chinook	Steelhead	Silver	Blueback	Chum	Total	Year
1938	271,799	107,003	15,185	75,040	2,117	471,144	1938
1939	286,216	121,922	14,382	73,382	1,168	497,070	1939
1940	391,588	185,161	11,917	148,805	1,729	739,200	1940
1941	461,458	118,087	17,911	65,745	5,270	668,471	1941
1942	403,938	151,345	12,401	55,475	1,865	625,024	1942
1943	313,123	92,131	2,547	39,845	790	448,436	1943
1944	240,763	100,521	4,208	15,071	954	361,517	1944
1945	297,488	120,144	791	9,501	727	428,651	1945
1946	445,743	142,548	3,897	74,354	1,178	667,720	1946
1947	480,376	135,434	11,174	171,139	202	798,325	1947
1948	419,555	139,062	4,081	131,541	3,636	697,875	1948
1949	277,697	119,285	1,004	51,444	2,028	451,458	1949
1950	357,375	114,079	10,153	77,993	1,069	560,669	1950
1951	331,788	140,689	5,201	169,428	1,051	648,157	1951
1952	420,879	260,990	7,768	184,654	1,505	875,796	1952
1953	332,479	223,915	13,018	235,219	1,728	806,359	1953
1954	320,945	176,254	4,062	130,107	1,569	632,937	1954
1955	359,853	198,417	3,725	237,748	318	800,061	1955

PACKAGING and PORTIONIZING

● "Portionizing" became a foremost factor in Pacific frozen fish packing and packaging in 1955, taking the play away from fish sticks in a remarkable degree, at least so far as the Pacific packaged fish industry is concerned.

Of course there is some question

as to whether "portionized" products can be called "packaged". Certainly they are not packaged for the consumer, but they *are* put up in institutional packages, and they *have* come to command a place in the front ranks of modern fish merchandising.

What has become of the fish sticks

boom on the Pacific? Well, to be candid, it has *slackened*. The trend may be but temporary, but there can be little doubt that it was here in 1955.

This does not mean that fish sticks have failed on the Pacific Coast, but that enthusiasm for the production of

1955 - FROZEN FILLETS - 1955

	(Pounds)												Total
	Dec. '54	Jan. '55	Feb.	March	April	May	June	July	August	September	October	Nov.	
WASHINGTON													
Block & Slabs	11,716	310	...	51,000	6,000	1,000	2,000	4,000	6,000	7,000	4,000	1,000	94,026
Cod	4,103	48,243	159,500	164,000	104,000	85,000	93,000	92,000	58,000	37,000	24,000	3,000	871,846
Halibut	...	...	...	...	...	175,000	113,000	176,000	89,000	38,000	1,000	...	592,000
Lingcod	4,287	2,345	11,200	12,000	19,000	26,000	24,000	21,000	26,000	13,000	11,000	...	169,832
Ocean Perch	...	...	78,000	98,000	31,000	49,000	70,000	77,000	60,000	86,000	60,000	25,000	634,000
Rockfish	1,340	1,509	7,400	...	16,000	3,000	...	...	1,000	3,000	18,000	4,000	55,249
Salmon	...	...	...	...	...	...	4,000	5,000	3,000	2,000	9,000	5,000	28,000
Sole	21,467	68,992	153,900	164,000	39,000	109,000	172,000	176,000	118,000	88,000	98,000	100,000	1,308,359
Other	...	12,780	47,600	...	...	...	...	2,000	1,000	...	5,000	...	68,380
Total Washington	42,913	134,179	457,600	489,000	215,000	448,000	478,000	553,000	362,000	274,000	230,000	138,000	3,821,692
OREGON													
Block & Slabs	...	...	100	...	1,000	1,000	1,000	1,000	3,000	...	...	...	7,100
Cod	512	...	3,600	3,000	3,000	...	...	...	...	...	...	...	10,112
Halibut	...	...	...	...	...	...	43,000	35,000	22,000	3,000	19,000	20,000	142,000
Lingcod	375	...	...	...	1,000	2,000	6,000	...	...	...	...	...	9,375
Ocean Perch	12,329	7,814	22,400	46,000	58,000	8,000	5,000	2,000	...	...	1,000	...	162,543
Rockfish	1,615	936	14,000	14,000	3,000	2,000	5,000	...	2,000	...	...	2,000	44,551
Salmon	...	1,936	...	...	...	...	41,000	31,000	88,000	47,000	4,000	...	212,936
Sole	25,472	37,700	34,400	69,000	55,000	34,000	69,000	47,000	96,000	85,000	15,000	6,000	573,572
Other	...	...	...	...	...	...	...	...	...	...	...	...	...
Total Oregon	40,303	48,386	74,500	132,000	121,000	47,000	170,000	116,000	211,000	135,000	39,000	28,000	1,162,189
Pacific Northwest TOTAL	83,216	182,565	532,100	621,000	336,000	495,000	648,000	669,000	573,000	409,000	269,000	166,000	4,983,881

HOLDINGS OF FROZEN SALMON IN CANADA BY MONTHS

	(Pounds)												Year
Year	Jan.	Feb.	March	April	May	June	July	August	September	October	November	December	
1943	6,388,157	4,182,422	3,187,367	1,424,622	749,130	421,899	618,566	1,292,092	2,491,083	3,922,968	7,861,284	9,720,826	1943
1944	8,245,459	6,228,542	4,036,324	2,572,067	1,723,599	1,192,453	1,323,970	2,225,799	4,458,686	7,569,646	9,592,929	8,525,062	1944
1945	5,754,484	4,212,779	3,064,075	1,916,384	1,224,894	653,660	975,614	2,603,913	5,848,648	8,889,338	12,264,609	11,286,939	1945
1946	8,995,555	6,201,817	4,664,805	2,859,525	1,470,544	719,534	1,477,539	2,310,009	4,287,429	6,910,578	10,414,810	12,529,428	1946
1947	10,484,688	8,068,793	5,641,958	4,244,254	3,066,183	2,041,997	1,849,142	3,317,623	4,788,724	6,115,604	10,991,495	11,346,880	1947
1948	12,471,000	10,816,000	8,925,000	5,322,000	3,454,000	2,821,000	2,721,000	3,992,000	4,679,000	6,007,000	12,481,000	10,379,000	1948
1949	9,310,000	7,786,000	5,574,000	3,880,000	2,997,000	2,467,000	3,220,000	4,770,000	7,350,000	9,306,000	14,987,000	11,573,000	1949
1950	9,573,000	8,243,000	6,045,000	4,095,000	2,916,000	2,193,000	2,526,000	3,493,000	7,153,000	13,008,000	16,790,000	14,409,000	1950
1951	12,032,000	10,172,000	6,808,000	5,009,000	4,023,000	2,597,000	2,640,000	4,450,000	7,560,000	10,811,000	16,479,000	14,998,000	1951
1952	13,342,000	10,838,000	9,247,000	6,657,000	5,785,000	4,394,000	5,185,000	6,446,000	9,239,000	10,532,000	12,236,000	11,480,000	1952
1953	10,455,000	8,096,000	5,848,000	4,287,000	2,985,000	2,649,000	3,477,000	4,480,000	7,533,000	10,450,000	15,498,000	13,095,000	1953
1954	11,591,000	10,054,000	7,516,000	4,627,000	3,527,000	2,385,000	2,143,000	4,538,000	6,052,000	9,597,000	12,866,000	12,014,000	1954
1955	9,769,000	7,576,000	5,864,000	3,654,000	2,634,000	1,754,000	1,801,000	3,334,000	6,230,000	6,976,000	*	*	1955

NOTE: - All figures in accordance with latest reports. Source: Dominion Bureau of Statistics, Department of Trade and Commerce. *Data not available.

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10014-B

1955 - San Pedro-Santa Monica Area Fresh Fish Landings-1955

SPECIES	POUNDS											
	Nov. 1954	Dec. 1954	Jan. 1955	Feb.	March	April	May	June	July	August	Sept.	Oct.
FISH:												
Anchovy	3,504	3,405	1,670	39,205	7,080	24,164	58,945	138,990	63,015	16,165	31,185	2,100
Barracuda	53,383	64,749	22,815	116,329	126,720	15,887	26,433	43,483	47,179	34,452	57,694	60,673
Cabrilla	2,102	3,105	26,110	2,293	8,422	35	1,370	9,403	...	3,199	...	...
Grouper	61,745	39,221	66,743	23,771	15,230	6,705	1,292	19,105	790	16,374	...	...
California Halibut	32,732	18,367	11,313	17,749	13,172	13,742	5,441	3,923	29,289	15,311	2,442	21,650
Flounder (Starry)	...	...	91	...	...	...	...	...	15	...	...	...
Flying Fish	...	...	...	...	...	...	...	...	...	123	...	...
Jack Mackerel	1,460	9,035	7,070	13,496	48,174	44,459	58,444	4,697	22,670	95,513	92,247	77,225
Kingfish	4,992	6,724	6,019	2,215	11,572	7,296	137,286	110,400	4,095	1,837	14,384	5,478
Mackerel	92,889	136,541	11,310	35,788	91,827	32,700	48,161	17,000	103,979	116,833	203,403	225,098
Perch	1,091	3,161	850	2,478	1,962	...	1,762	2,021	732	149	2,000	4,648
Pichard	247,702	115,540	62,920	7,770	89,770	46,347	113,514	58,075	85,943	166,197	228,595	155,851
Pampano	...	176	15	396	2,163	1,684	342	490	358	...	30	864
Rock Bass	...	336	300	300	511	...	95	...	...	375	110	...
Rock Fish	46,188	17,979	26,427	42,894	23,266	9,954	22,871	7,277	8,884	5,967	6,002	16,124
Sablefish	23	...	67	...	571	2,498	1,649	255	951	110	...	176
Sand Dabs	9,825	301	132	865	1,600	2,546	2,101	1,695	1,564	2,154	1,226	2,071
Sculpin	...	15	...	232	79	5	1,659	5,795	8,523	9,365	1,452	68
Salmon	...	...	...	...	...	...	...	...	...	172	...	172
Sea Bass: Black	23,534	51,702	15,208	20,578	38,323	23,633	14,184	50,824	1,885	2,522	1,129	30,812
White	36,608	35,766	8,813	20,856	2,820	17,854	30,279	31,859	30,822	122,127	92,035	30,055
Shark	7,204	9,722	4,297	3,944	2,562	3,251	3,329	6,175	6,858	3,858	4,859	459,874
Sheepshead	175	197	...	250	435	580	21	...	225	36	...	62,034
Sole (All Varieties)	...	...	...	1,723	751	...	155	...	...	...	30	3,197
Skate	184	...	339	1,223	...	...	...	35	...	...	...	...
Smelt	120	210	1,150	265	4,766	2,865	50	1,330	...	...	...	...
Swordfish	1,541	...	...	...	...	...	...	...	...	...	...	3,437
Tuna: Albacore	1,947	5,495	1,977	...	...	...	...	...	...	602	...	600
Bonito	...	...	...	...	...	...	...	...	...	6,180	...	13,528
Bluefin	...	136,904	205	830	425	...	...	816	5,475	17,236	9,089	6,746
Yellowfin	...	...	...	42,912	9,099	1,098	...	...	420	...	38,789	22,015
Yellowtail	6,128	27,271	...	15,884	23,831	56,967	26,955	72,395	120,141	63,441	15	11,999
SHELL FISH:	...	...	...	2,874	10,948	244	16,808	...	42	...	80,758	1,995
Abalone	225	...	...	...	3,025	...	353	555	37	3,575	...	533,908
Octopus	17	...	...	...	...	...	...	...	...	...	...	...
Spiny Lobster	29,736	33,582	22,658	16,400	14,554	...	...	4,000	...	...	12,107	117,107
Squid	...	265	16,930	1,215	14,050	...	6,450	13,315	...	...	...	...
Miscellaneous	1,107	1,890	2,761	1,731	9,825	834	4,061	3,339	1,888	2,325	...	90
TOTAL	665,662	721,679	321,670	506,556	573,433	320,254	588,810	607,692	558,764	694,046	863,291	739,007
												7,160,866

packaged, pre-cooked fish in this form has waned sharply on the Pacific. True, there still are many fish sticks being sawed and breaded and fried, but in general this is being done for the local trade, and by specialists or custom friers rather than as departments of general fish businesses. These specialists in frying usually secure their material for sawing in the form of blocks of imported cod filets.

● But to get back for a moment to portioning; this is the preparation of exact-weight steaks or filets for the institutional, restaurant and short-order trade.

The buyer wants to serve a fish order consistent in size, constant in cost, and steady in price.

1955 - SAN DIEGO FRESH FISH LANDINGS-1955

Species	Nov. '54	Dec. '54	Jan. 1955	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Total
Barracuda	31,375	4,988	...	...	4,261	...	46,947	25,311	...	...	1,368	10,714	125,890
Halibut, California	5,736	3,769	...	...	5,035	...	4,034	...	...	...	...	7,561	28,334
Kingfish	15,896	13,762	...	...	2,844	...	...	...	...	19,562	2,487	58	2,736
Mackerel	...	...	...	...	654	4,466	9,172	1,377	1,039	1,205	6,687	29,341	108,763
Rockfish	...	1,687	...	...	...	...	272	24,569	...	...	...	...	42,890
Sea Bass: Black	8,829	7,513	...	...	1,522	...	9,272	220	...	1,101	180	...	11,016
White	25,827	3,156	...	...	1,109	...	14,712	...	...	1,100	22,640	18,414	102,748
Sculpin	...	6,341	...	...	5,614	4,310	10,283	1,071	...	...	2,974	6,161	4,655
Shark	...	...	...	...	...	...	...	...	...	...	...	...	53,565
Tuna:	...	...	...	...	...	...	...	...	...	...	...	...	300
Bonito	300	...	...	...	1,258	...	...	9,352	...	...	...	...	10,635
Yellowtail	...	...	...	...	...	...	...	39,184	3,853	7,644	...	...	54,572
Bluefin	...	...	...	...	...	...	...	...	...	...	9,071	...	9,071
Albacore	...	...	...	...	...	...	...	...	...	...	207	...	1,443
Miscellaneous	...	1,191	...	...	...	...	...	...	...	...	...	...	112
Lobster, Spiny	...	...	...	...	...	...	...	...	...	...	...	...	...
TOTAL	94,229	42,407	24,333	12,641	22,297	8,837	79,890	119,830	4,892	29,511	45,614	72,249	556,730

1955 -CALIFORNIA FISH FREEZINGS-1955

(Pounds)

Species	Nov. '54	Dec. '54	Jan. '55	Feb.	March	April	May	June	July	August	Sept.	Oct.	Total
FROZEN FISH													
Bait & Animal Food	140,000	16,000	2,318	65,300	213,000	182,000	417,000	355,000	259,000	483,000	717,000	394,000	3,243,618
Fillet:													
Blocks & Slabs	...	...	...	...	4,000	5,000	...	...	...	...	6,000	...	15,000
Cod	2,674	733	388	...	...	...	2,000	2,000	3,000	1,000	1,000	3,000	15,795
Flounder	...	...	341	...	2,000	...	2,000	2,000	3,000	...	3,000	3,000	15,341
Lingcod	...	...	...	...	...	...	...	...	...	...	1,000	1,000	2,000
Rockfish	6,241	...	560	459	...	...	1,000	2,000	...	2,000	1,000	...	13,260
Salmon	...	...	...	...	...	...	...	...	...	...	1,000	...	1,000
Sole	2,764	1,758	562	1,649	...	2,000	...	...	...	4,000	...	...	12,733
Other Fillets	189,205	139,496	130,010	100,873	92,000	110,000	102,000	174,000	142,000	131,000	67,000	138,000	1,515,584
Flounder, etc.	...	305	...	...	...	...	...	...	...	...	...	...	305
Halibut	...	...	...	...	...	...	11,000	3,000	14,000	7,000	1,000	27,000	63,000
Mackerel	3,445	3,980	...	2,770	39,000	18,000	21,000	18,000	7,000	31,000	34,000	59,000	237,195
Sablefish	43,310	11,289	...	...	6,000	26,000	21,000	63,000	24,000	15,000	3,000	15,000	227,599
Salmon:													
King or Chinook	...	...	...	...	...	...	53,000	52,000	65,000	64,000	64,000	2,000	300,000
Silver or Coho	...	...	...	...	...	...	...	...	...	...	1,000	...	1,000
Fall or Chum	...	...	...	...	...	...	...	2,000	115,000	1,000	28,000	3,000	149,000
Unclassified	...	...	...	...	...	...	74,000	74,000	...	100,000	267,000	...	515,000
Sea Bass	1,287	16,755	...	...	18,000	20,000	...	...	...	7,000	12,000	...	75,042
Shad (Incl. Shad Roe and Roe Shad)	...	...	...	...	...	...	13,000	12,000	...	...	...	...	25,000
Smelt	...	...	90	...	...	...	1,000	2,000	...	...	...	...	3,090
Swordfish	...	...	...	...	...	...	...	...	...	...	...	...	9,000
Tuna	17,553	...	...	...	...	...	...	...	4,000	9,000	5,000	...	307,553
Unclassified	95,353	79,968	45,214	76,345	74,000	84,000	131,000	94,000	213,000	164,000	91,000	182,000	1,329,880
TOTAL: Salt Water Fish	501,832	270,284	179,483	247,396	448,000	447,000	849,000	855,000	853,000	1,019,000	1,518,000	888,000	8,076,995
FROZEN SHELLFISH													
Crabs (Incl. Crabmeat)	14,696	12,027	8,034	4,727	8,000	...	1,000	2,000	3,000	2,000	...	...	55,484
Lobster Tails (Spiny)	...	400	500	39,010	33,000	...	...	...	3,000	2,000	...	76,000	153,910
Shrimp & Prawns (Incl. meat)	...	365	...	200	1,000	22,000	32,000	38,000	39,000	38,000	63,000	28,000	261,565
Squid	31,220	11,720	19,930	2,280	13,000	33,000	19,000	10,000	59,000	1,000	2,000	52,000	254,159
Other Shellfish	...	...	...	...	...	...	...	...	...	...	...	...	...
TOTAL SHELLFISH	45,925	24,512	28,464	46,217	55,000	55,000	52,000	50,000	104,000	43,000	65,000	157,000	726,118

He places an order with a supplier for so-many pounds of steaks or fillets, each of which must weigh just so-many ounces.

These are cut for him by large fish houses either by slicing fresh fish and then freezing, or by band-sawing frozen fish into steaks. Expert knife or saw men can divide the large pieces into portions closely meeting the buyers' specifications. It isn't necessary to cut each individual piece to a certain weight, as the house usually

Shipments of Tuna Received in California

(Pounds)

Year	Albacore	Yellowfin	Skipjack	Bluefin	Bigeeye	Other	TOTAL
1944	2,535,547	72,859	899,862	...	...	...	3,508,268
1945	60,901	1,317,589	74,489	...	...	...	1,452,979
1946	...	817,987	210,687	...	...	...	1,028,674
1947	269,397	1,392,590	146,655	...	...	...	1,808,642
1948	1,141,747	...	364	168,180	...	...	1,310,291
1949	254,664	673,632	11,911	...	...	5,655	945,863
1950	4,378,420	7,961,748	3,251,118	107,878	...	40,000	15,739,164
1951	17,520,891	13,120,725	2,858,749	2,112	...	36,858	33,539,335
1952	22,525,248	7,141,589	4,157,441	...	...	2,306	33,826,584
1953	46,186,816	8,458,606	8,347,736	62,447	20,000	...	63,075,605
1954	38,466,383	29,701,898	15,707,756	771,147	1,249,937	3,901	85,901,022



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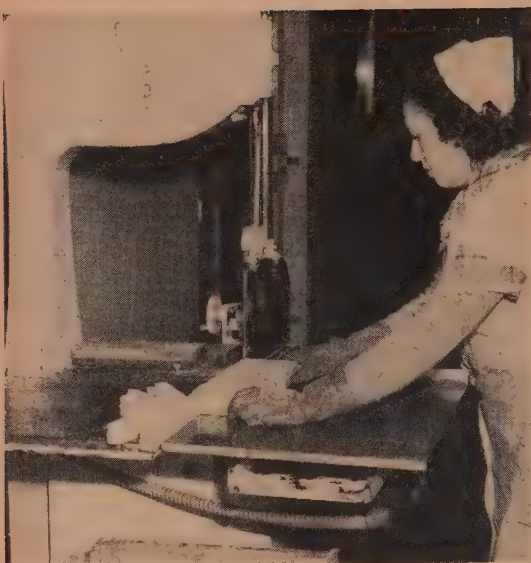
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Cutting Sticks—Sawing blocks of frozen fillets into fish sticks on a "Butcher Boy" saw in a California breading - and - frying plant.

has orders for several sizes on the book, and it is easier for the packers to select certain sizes out of a mixed group than it is for the cutter to divide the steaks to one certain size.

Portionized fish are generally layer packed in cartons with a sheet of cellophane between. The chef can break-out a box or a layer, or whatever he thinks he'll need. The owner of the eating house knows just exactly what each serving costs, because there is virtually no variation in weight; and no need for a high-priced chef to spend his time cutting fish, a task at which he perhaps is more wasteful than expert. Moreover, each customer gets the same value in his order, this time and next time.

• Kinds of Pacific fish, and their cost, also apparently has had more

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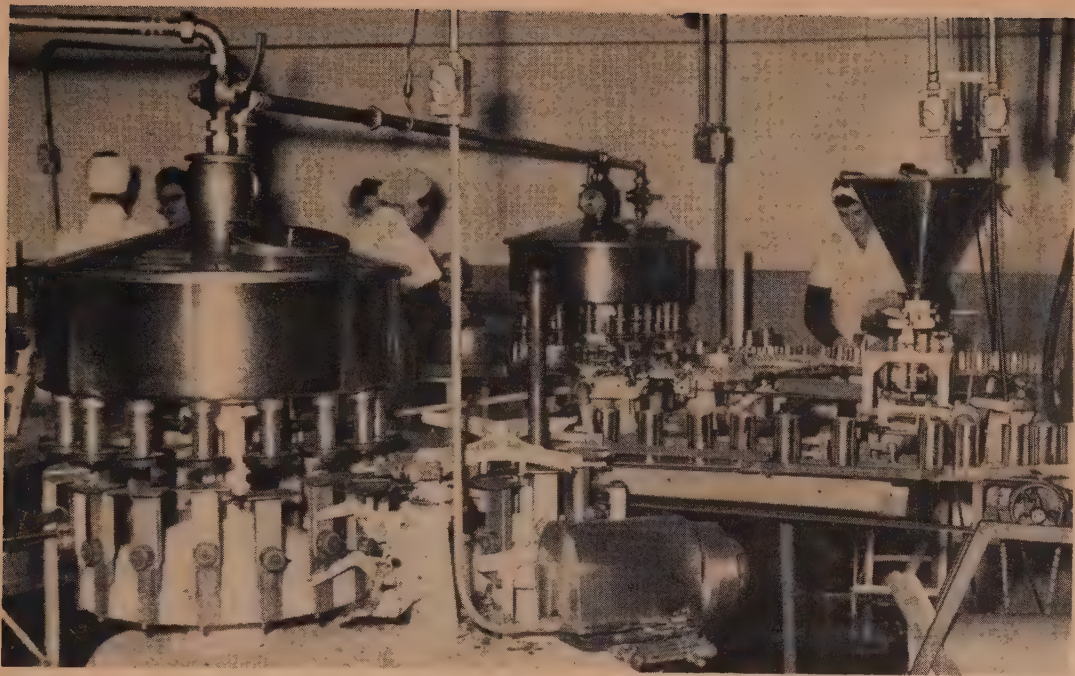
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Packing Oyster Stew—Remarkable rise of this product has featured recent years in the development of the Pacific oyster business. This picture shows the filling machines in the Seattle cannery of Hilton Seafoods Co.

than a little to do with the development of portionizing.

Salmon and halibut stand high among Pacific frozen fish varieties, and they don't lend themselves too well to marketing in the form of fish sticks. Too expensive, for one thing; too large, for another. Moreover, they have special flavors which can be lost in the form of fried sticks; and consumer preference over the years has tended to demand salmon and halibut in the form of steaks.

The rocketing rise of sticks just

hasn't served to overcome consumer preference for steaks when it comes to salmon and halibut.

Moreover, the cost of a pound package of salmon and halibut is high enough as it is; and if you try to sell them as sticks they would have to be priced in the caviar class.

● Pacific fish sticking took one long stride upward in 1955 when Fulham Brothers' *Four Fishermen* brand came to be produced in a modern, large

capacity fish sticking and frying plant at Santa Rosa.

This well known brand already had a solid niche in the Pacific Coast frozen fish market and the new plant provides a point of supply for the western states.

Custom preparation and packing of fish sticks developed during the year, with the Chef Canning Co. at Seattle and the Santa Barbara Frozen Foods at Santa Barbara doing a good deal of the business.

Demand for cod fillets for block-

PUGET SOUND FROZEN FISH PACKS

YEAR	(Pounds)						YEAR
	Halibut	Salmon	Steelhead & Fillets	Sablefish	Miscellaneous	TOTAL	
1928	3,929,600	5,737,402	72,399	1,676,530	1,091,008	12,506,939	1928
1929	4,365,139	5,737,367	118,034	1,339,912	1,272,772	12,833,224	1929
1930	4,008,690	6,767,538	58,246	2,057,845	2,114,206	15,006,525	1930
1931	7,124,976	7,034,178	57,815	941,986	742,543	15,901,498	1931
1932	6,241,135	4,764,945	11,375	1,045,588	470,872	12,533,915	1932
1933	8,575,289	8,685,729	*160,080	842,039	456,298	18,719,435	1933
1934	9,592,971	8,276,309	* 54,479	1,381,287	1,306,520	20,611,566	1934
1935	7,056,953	10,996,930	...	1,740,122	1,415,122	20,939,915	1935
1936	7,395,485	6,704,971	...	1,309,243	811,273	16,220,972	1936
1937	8,490,747	10,121,808	...	2,314,399	1,578,453	22,505,407	1937
1938	8,174,462	7,796,087	...	2,248,790	2,342,902	20,562,241	1938
1939	7,795,768	4,488,450	...	1,887,336	1,827,266	15,998,820	1939
1940	8,645,576	6,748,021	...	1,832,112	1,600,432	18,826,141	1940
1941	9,440,017	7,569,858	...	1,348,723	2,345,540	20,704,138	1941
1942	6,815,874	5,608,307	Fillets	1,221,946	3,066,177	16,712,304	1942
1943	4,250,010	2,530,755	429,394	860,577	6,846,616	14,917,352	1943
1944	5,237,071	4,264,315	2,893,179	2,305,848	3,777,952	18,478,365	1944
1945	6,728,420	9,030,403	4,193,268	1,071,769	5,673,660	26,697,547	1945
1946	8,050,947	6,388,388	3,895,400	1,714,185	2,807,240	22,856,160	1946
1947	4,933,377	4,241,310	1,658,152	921,204	1,004,330	12,758,373	1947
1948	7,152,574	4,355,399	2,393,487	1,519,514	797,882	16,218,856	1948
1949	7,535,497	5,123,763	1,132,440	1,846,314	1,088,490	16,786,504	1949
1950	6,270,705	4,706,925	1,166,019	1,547,807	4,520,880	18,917,886	1950
1951	7,789,536	4,314,516	2,119,910	1,791,000	2,275,577	18,290,539	1951
1952	8,345,650	5,532,676	3,400,786	1,661,919	751,310	19,296,340	1952
1953	9,473,444	6,380,981	1,654,189	1,651,734	462,602	19,622,950	1953
1954	12,201,900	4,740,637	2,651,084	1,498,376	460,545	21,552,542	1954
1955	11,058,245	4,034,495	2,913,312	1,638,426	714,435	20,358,913	1955

NOTE: - Since 1942 Steelheads have been combined with Salmon. Figures given in this column cover the quantities of frozen fillets of all varieties of fish reported.
 *All Steelheads frozen on Puget Sound were Columbia River fish shipped to Seattle for freezing.

TOM LAZIO FISH CO., INC.

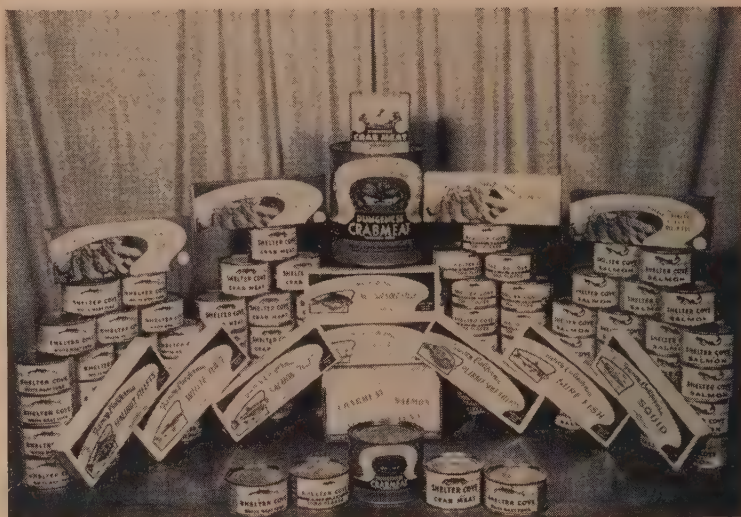
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ing, as well as for fillet packaging, served to keep the Puget Sound trawl fleet busy during 1955, when its landings reached parity with those of the year before, and second only to the all-time reached in 1945 under the spur of war. The cod catch landed in the Pacific Northwest as result of the demand for fish sticks stock is believed to have been larger than in any previous year.

● Shrimp breading and frying built its Pacific center in the Los Angeles area, convenient to the great source of supply on the west coast of Mexico, and also to the enormous purchasing power of the Southern California population complex.

Central Fish & Oyster Co. equipped its Los Angeles plant with modern

Oyster Sticks are among the new Pacific packaged fish items. They were developed and introduced in 1955 by the Olympia Oyster Co.



Astoria Landings and Receipts by Months -- 1955

(Pounds)												
SPECIES	January	February	March	April	May	June	July	August	September	October	November	TOTAL
GILL-NET												
Salmon:												
Chum	...	...	...	...	...	...	...	...	...	87,600	62,400	150,000
Blueback	...	58,282	...	...	...	6,300	72,800	1,200	...	...	...	138,582
Chinook	...	...	...	...	2,511,217	552,200	309,800	2,164,400	720,000	71,800	8,600	6,338,017
Silver	...	...	...	...	...	...	...	2,100	222,100	295,000	81,000	600,200
Steelhead	...	102,844	...	...	14,343	55,000	328,800	337,300	123,600	3,100	25,400	990,387
Shad	...	...	...	...	18,654	158,900	96,100	800	...	...	...	274,454
Sturgeon:												
White	...	10,339	...	...	50,102	11,300	10,500	35,600	14,600	4,300	3,200	139,941
Green	...	...	...	...	318	2,800	4,600	47,400	3,500	300	...	58,918
Flounder	...	24,071	...	...	110,487	14,700	7,400	13,300	2,700	2,700	600	175,958
Total Gill-Net	...	195,536	...	...	2,705,121	801,200	830,000	2,602,100	1,086,500	464,800	181,200	8,866,457
TROLL												
Salmon:												
Chinook, large	...	...	45,246	164,486	143,832	200,500	101,600	208,800	79,300	35,300	...	979,064
Chinook, small	...	...	...	...	88,453	107,900	58,000	146,600	88,900	51,800	...	541,653
Chinook, white	...	...	...	...	291	...	...	100	...	...	...	391
Silver	...	...	...	...	...	43,500	120,300	367,800	190,100	76,000	...	797,700
Pink	...	...	...	...	...	...	2,500	3,400	...	...	...	5,900
Halibut*	...	...	...	...	1,567	2,700	1,000	500	500	...	...	6,267
Miscellaneous*	...	...	...	7,949	11,318	3,400	4,100	5,900	9,200	2,200	...	44,067
Total Troll	...	...	45,246	172,435	245,461	358,000	287,500	733,100	368,000	165,300	...	2,375,042
TRAWL												
Cod	18,022	12,021	12,251	15,072	42,885	43,300	40,100	112,700	31,600	19,200	9,900	357,051
Flounder	3,690	...	100	305	...	...	1,900	...	...	...	1,600	7,595
Lingcod*	3,151	14,220	18,998	14,901	20,413	13,300	13,100	33,200	14,800	9,600	2,300	157,983
Perch, Pacific Ocean	104,955	85,293	406,050	292,504	157,162	166,800	73,300	99,100	30,900	73,900	22,000	1,511,964
Rockfishes	212,213	224,844	309,935	77,580	178,322	168,400	225,800	202,500	136,700	126,100	88,100	1,950,494
Sablefish*	2,593	6,727	11,919	2,678	8,247	12,000	31,600	29,200	18,000	72,300	3,400	198,664
Sole:												
Dover	35,797	53,644	199,339	181,072	225,024	561,800	349,800	510,300	366,500	133,800	27,200	2,644,276
English	29,569	39,315	58,214	30,568	69,006	76,700	135,300	184,000	104,900	39,200	20,600	787,372
Petrale	164,328	52,995	115,290	36,570	87,815	177,100	122,600	186,300	114,100	34,600	17,300	1,108,998
Rex	8,992	15,250	15,297	14,954	40,103	54,700	52,700	40,300	40,600	23,700	5,900	312,496
Animal Food	...	...	...	...	...	3,120,300	1,065,000	1,997,700	1,422,200	504,600	270,600	8,380,400
Miscellaneous	...	...	...	2,979	49,177	...	...	...	...	...	...	52,156
Total Trawl	583,310	504,309	1,147,393	669,183	878,154	4,394,400	2,111,200	3,395,300	2,280,300	1,037,000	468,900	17,469,449
HALIBUT												
Halibut No. 1 *	...	...	...	...	102,716	66,800	41,500	67,800	33,000	...	...	311,816
Halibut No. 2 *	...	...	...	...	17,222	5,000	6,300	10,200	6,300	...	...	45,022
S MELT												
Smelt, Dip-Net	...	...	162,300	46,750	...	...	...	...	...	...	...	209,050
Smelt, Gill-Net	...	...	13,400	...	...	...	...	...	...	...	...	13,400
Tuna	...	...	...	...	...	...	...	...	...	2,977,000	1,259,700	4,236,700
SHELLFISH												
Crabs	409,119	517,554	464,221	346,642	390,486	156,800	52,200	7,500	8,800	35,100	58,100	2,446,522
IMPORTS												
Tuna: Albacore	360,000	913,600	232,222	807,047	770,000	1,500,000	5,300,000	500,000	50,000	2,440,900	2,659,600	15,533,369
Yellowfin	...	...	...	...	10,000	...	1,000,000	660,000	100,000	1,467,600	1,340,000	4,577,600
Skipjack	...	...	...	...	...	...	...	...	...	...	377,600	377,600
Whale Meat	...	...	...	...	...	198,300	206,000	...	...	...	...	404,300
Total Imports	360,000	913,600	232,222	807,047	780,000	1,698,300	6,506,000	1,160,000	150,000	3,908,500	4,377,200	20,892,869
GRAND TOTAL	1,352,429	2,130,999	2,064,782	2,042,057	5,119,160	7,480,500	9,834,700	7,976,000	3,932,900	8,587,700	6,345,100	56,866,327

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| 5 lb. breaded shrimp | 5 oz. fried shrimp | 5 lb. Whole Pismo clams |

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Greer machinery for breading peeled shrimp for its *Blue Diamond* label. It packs fish sticks also.

In the field of packaged frozen shellfish, San Kenteen Sea Food Corporation of Beverly Hills, Calif., struck a brilliant note in 1955 with its packaged frozen lobster for the consumer. Louis Beverino backed this fancy specialty with a line of frozen shrimp which took hold nicely in the rich Southern California food field.

● Oysters flashed into the prepared-and-packaged food field in 1955 when the Olympia Oyster Co. introduced its friend oyster sticks under its *Smiling Oyster* brand. The sticks are composed of Pacific oysters and are breaded with Golden-Dipt. They are distributed by James A. Edington Inc., Seattle.

While frozen oysters have made headway in the Pacific market, and give promise of further gains, the sticks developed by the Olympia company appear to offer interesting vari-

Breeding Shrimp in a modern Los Angeles plant. Here deft women complete the peeling and veining of the shrimp, which pass then to a breeding machine at the end of the line, and finally into the glass-enclosed packaging room at the rear.



1955 -EUREKA AREA FRESH FISH LANDINGS- 1955

SPECIES	POUNDS												TOTAL
	Nov. '54	Dec. '54	Jan. '55	Feb.	March	April	May	June	July	August	Sept.	Oct.	
Flounder	5,100	1,500	...	1,600	3,200	...	11,800	14,400	32,600	29,900	21,700	7,400	129,200
Halibut	...	...	...	...	...	...	19,500	10,900	7,400	...	6,900	100	44,800
Herring	...	...	700	19,000	600	...	...	...	...	...	...	...	20,300
Lingcod	5,100	1,500	1,800	1,200	3,000	3,400	16,400	38,200	37,300	32,800	32,700	56,100	229,500
Perch	2,600	...	...	...	3,700	3,600	...	7,200	2,400	13,300	1,300	1,000	35,100
Rockfish	72,300	20,400	66,300	121,500	116,200	38,900	156,700	165,700	196,300	218,400	255,500	149,300	1,577,500
Sablefish	49,400	11,500	12,800	21,600	38,000	27,400	20,600	55,700	41,700	21,400	29,900	21,700	351,700
Sand Dabs	5,500	600	2,600	5,400	6,300	6,800	12,000	18,200	13,500	17,700	11,800	5,700	106,100
Sole: Arrowtooth	22,000	17,600	6,500	3,500	21,100	38,400	17,400	41,000	63,300	85,500	58,600	42,300	417,200
Dover	120,900	121,400	2,800	600	62,000	140,400	354,200	379,200	421,000	473,200	424,800	367,600	2,868,100
English	40,500	9,600	30,200	48,200	54,400	32,600	90,900	83,700	71,200	76,900	67,900	87,700	693,800
French	1,700	700	4,100	500	900	2,600	3,900	4,000	...	3,200	2,200	1,700	25,500
Petrale	25,100	189,200	128,200	15,000	20,700	19,300	31,700	129,900	116,100	142,500	194,800	108,800	1,121,300
Rex	9,100	13,900	13,200	5,300	14,700	19,900	28,800	33,900	26,600	38,600	34,900	102,800	341,700
Sand	...	...	...	100	200	...	...	...	...	...	...	...	300
Salmon	...	...	...	...	...	...	237,600	415,300	423,900	196,900	168,200	5,900	1,447,800
Turbot	500	...	400	300	...	...	...	...	...	...	...	400	1,600
Whitebait	...	...	...	300	1,000	2,900	5,200	3,800	1,700	500	200	300	15,900
Miscellaneous	26,100	28,400	13,300	5,400	18,400	53,500	10,500	24,600	47,100	67,300	70,800	60,600	426,000
Shrimp	...	...	...	...	...	...	...	...	...	...	40,000	...	40,000
Crabs	166,500	58,300	40,600	85,300	65,900	42,400	19,100	16,600	5,300	...	...	...	500,000
TOTAL	552,400	474,600	323,500	334,800	430,300	432,100	1,036,300	1,442,300	1,507,400	1,418,100	1,422,200	1,019,400	10,393,400

1955 -Seattle-Weighted Average Prices Paid to Fishermen- 1955

SPECIES	Cts. per Pound											Nov.
	Dec. '54	Jan. '55	Feb.	March	April	May	June	July	August	Sept.	Oct.	
Cod, true, ex-vess	Dn	7.0	7.0	7.0	...	...	7.0	...	...	...	...	7.0
Cod, true, ex-vess	Rd	4.0	4.0	4.0	4.0	4.0	3.5	3.5	3.5	3.5	3.5	3.5
Flounder, ex-vess	Rd	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Halibut No. 1, ex-vess	Dn	...	...	...	...	14.8	17.4	19.4	18.3	25.1	27.0	28.1
Halibut No. 2, ex-vess	Dn	...	...	...	...	13.2	14.7	15.2	15.3	17.6	18.8	...
Lingcod, ex-vess	Dn	11.7	10.0	11.7	10.0	9.2	8.0	7.5	8.0	5.8	7.3	8.9
Lingcod, ex-vess	Rd	5.0	5.0	5.0	5.0	4.5	4.0	3.5	3.5	3.5	3.5	3.5
Pacific Ocean Perch, ex-vess	Rd	4.5	4.5	4.5	4.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Rockfish, ex-vess	Dn	6.3	5.0	5.0	...	...	5.0	5.0	5.0	5.0	5.0	5.0
Rockfish, ex-vess	Rd	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Sablefish, ex-vess	Dn	8.4	...	12.0	12.0	12.0	12.0	13.6	13.9	14.3	13.7	13.8
Sablefish, ex-vess	Rd	...	...	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
SALMON:												
Chinook, large, ex-vess	Dn	...	...	...	48.0	47.4	48.2	50.8	49.8	49.9	51.0	...
Chinook, small, ex-vess	Dn	...	...	...	48.0	40.0	37.7	36.2	35.7	36.2	38.2	...
Chinook, white, ex-vess	Dn	...	...	...	...	30.7	29.1	27.5	26.5	29.8	35.6	...
Chinook, ex-vess	Rd	...	...	...	...	...	...	15.0	15.0	22.0	28.0	29.0
Chum, ex-vess	Rd	...	...	...	...	...	...	...	...	15.0	18.5	18.0
Silver, ex-vess	Dn	...	...	...	...	...	...	31.4	33.7	35.8	37.5	...
Silver, ex-vess	Rd	...	...	...	...	...	26.0	...	15.0	22.0	28.5	29.0
Pink, ex-vess	Rd	...	...	...	...	...	...	...	14.0	15.5	...	...
Sockeye, ex-vess	Rd	...	...	...	...	...	...	...	29.0	...	...	...
Sole, English, ex-vess	Rd	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Sole, Petrale, ex-vess	Rd	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Sole, Other, ex-vess	Rd	6.0	6.5	6.5	6.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Tuna, Albacore, ex-vess	Rd	...	...	...	...	...	...	...	...	...	...	20.0



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ety, and largely to overcome the adverse reactions of the minority of consumers who "just don't like oysters".

Following fast on the heels of no less a concern than the great Campbell Soup Co., Haines Oyster Co., a cooperative marketing group with membership including a substantial segment of the smaller Pacific Northwest independent growers, in 1955 started marketing frozen oyster stew, packed in tin cans.

Remarkable growth of *canned* oyster stew, as distinguished from frozen oyster stew in cans, continues on the Pacific Coast, with a very considerable portion of the current oyster output going to market in this form.

Washington Eulachon Smelt Catches

YEAR	(Pounds)				
	Cowlitz River	Grays River	Lewis River	Columbia River	TOTAL
1939	1,012,730	30,300	1,342,675	184,348	2,570,053
1940	730,170	60,450	1,341,250	384,650	2,516,520
1941	1,794,233	.....	376,975	42,919	2,214,127
1942	1,570,915	51,750	.....	54,325	1,676,990
1943	2,973,340	3,675	270,375	124,500	3,371,790
1944	1,125,674	10,900	504,000	249,522	*1,942,771
1945	2,048,438	42,753	1,552,770	215,040	*3,681,463
1946	2,674,040	300	.....	51,099	2,725,439
1947	1,192,663	.....	547,590	128,280	1,320,943
1948	2,197,810	.....	.....	296,240	3,041,640
1949	750	250	1,940,850	387,701	2,329,551
1950	31,320	11,600	557,157	379,730	***980,832
1951	.....	.....	1,050	649,838	† 651,268
1952	377,754	.....	.....	400,747	† 796,309
1953	799,738	15,555	.....	206,909	† 1,025,052
1954	792,902	.....	360,871	308,742	† 1,478,680
1955	1,344,674	.....	.....	408,833	1,753,507

* Includes 32,462 pounds caught in the Kalama River. *** Includes 1,025 pounds taken in Kalama River.

** Includes 44,300 lbs. from Kalama River; 7,675 lbs. from Naselle River; and 700 lbs. from Nemah River. † Total includes minor catches from the Kalama River, 16,165 lbs. in 1954.

1955 -- Alaska Fish Freezing by Months -- 1955

ITEM	(Pounds)												TOTAL
	Dec. '54	Jan. '55	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	
FROZEN FISH													
Bait & Aminal Food	...	1,038,000	603,500	163,000	1,401,000	901,000	8,000	18,000	95,000	30,000	20,000	4,000	4,281,500
Fillets and Steaks:													
Halibut	...	...	...	...	...	357,000	367,000	247,000	200,000	111,000	16,000	...	1,298,000
Lingcod	...	...	...	...	...	1,000	1,000	...	...	...	5,000	...	7,000
Round, Dressed, Etc:													
Halibut	...	...	...	...	...	4,465,000	5,288,000	3,528,000	2,916,000	421,000	55,000	31,000	16,704,000
Sablefish	...	...	...	...	...	20,000	234,000	623,000	248,000	984,000	390,000	208,000	2,707,000
Salmon:													
King	936	...	...	1,000	34,000	120,000	374,000	441,000	278,000	156,000	65,000	37,000	1,506,936
Silver	...	...	...	...	...	...	...	581,000	1,536,000	1,296,000	19,000	...	3,432,000
Chum	...	...	...	...	...	...	...	13,000	68,000	38,000	...	...	119,000
Unclassified	...	...	...	...	...	4,000	1,000	25,000	50,000	20,000	...	2,000	102,000
Total Salmon	936	...	...	1,000	34,000	124,000	375,000	1,060,000	1,932,000	1,510,000	84,000	39,000	5,159,936
Other Fish	...	...	...	...	...	3,000	4,000	232,000	...	3,000	...	...	242,000
TOTAL FROZEN FISH	936	1,038,000	603,500	164,000	1,435,000	5,871,000	6,277,000	5,708,000	5,391,000	3,059,000	570,000	282,000	30,399,436
FROZEN SHELLFISH													
Crabs and Crab meats	1,115	445	300	...	...	...	...	36,000	14,000	8,000	4,000	2,000	65,860
Shrimp:													
Raw, Headless	7,368	14,410	...	1,000	1,000	17,000	13,000	...	...	...	9,000	13,000	75,778
Other, (Incl. Breaded)	...	...	10,500	...	...	...	...	3,000	...	...	...	...	13,500
Other Shellfish	...	...	...	...	...	...	...	...	4,000	...	...	...	4,000
TOTAL SHELLFISH	8,483	14,855	10,800	1,000	1,000	17,000	13,000	39,000	18,000	8,000	13,000	15,000	159,138
TOTAL FROZEN FISH & SHELLFISH	9,419	1,052,855	614,300	165,000	1,436,000	5,888,000	6,290,000	5,747,000	5,409,000	3,067,000	583,000	297,000	30,558,574

WASHINGTON TRAWL LANDINGS

Year	Sole and Flounders	"Cod"	Lingcod	Sablefish	Rockfish	Miscellaneous	TOTAL	Year
1930	339,932	26,318	.....	.....	24	32,419	398,693	1930
1931	323,064	30,269	.....	.....	.....	3,674	357,007	1931
1932	281,302	46,512	.....	.....	1,000	1,374	330,188	1932
1933	296,517	59,965	.....	.....	.....	5,200	361,682	1933
1934	247,684	25,405	13,454	.....	8,313	6,116	300,972	1934
1935	2,575,998	185,786	285,759	.....	63,284	23,743	3,134,570	1935
1936	4,791,994	406,361	237,229	.....	81,301	22,650	5,539,535	1936
1937	4,265,491	441,130	235,431	.....	72,640	14,919	5,029,611	1937
1938	5,036,852	456,814	286,439	.....	107,163	21,952	5,909,220	1938
1939	4,659,122	354,805	197,982	.....	112,395	231,614	5,555,918	1939
1940	5,917,096	518,705	247,007	.....	248,711	946,788	7,878,307	1940
1941	7,977,576	457,253	199,128	.....	93,286	582,295	9,309,538	1941
1942	9,575,018	1,172,811	3,845,055	118,406	1,034,417	717,279	16,462,986	1942
1943	13,350,936	996,963	4,859,693	778,451	4,464,702	1,015,394	25,366,139	1943
1944	7,806,664	623,151	4,254,298	1,429,682	5,132,233	270,898	19,516,962	1944
1945	9,185,003	2,417,053	4,177,839	529,507	16,093,712	211,068	32,614,182	1945
1946	9,709,656	3,701,647	3,193,436	628,756	10,094,207	93,705	27,421,407	1946
1947	9,294,256	2,442,583	2,481,497	155,981	6,024,582	99,887	20,498,786	1947
1948	13,744,310	5,371,084	4,649,453	314,229	10,262,442	162,166	34,503,684	1948
1949	10,368,493	5,465,538	3,063,672	586,368	12,610,526	588,282	32,682,879	1949
1950	10,379,364	6,330,873	2,365,948	497,822	12,210,430	414,731	32,199,168	1950
1951	11,016,660	8,395,728	1,844,559	1,277,731	9,939,526	2,057,590	34,531,794	1951
1952	12,865,755	9,976,893	1,510,339	643,485	11,288,025*	3,375,374	39,659,871	1952
1953	7,890,623	8,183,080	949,757	225,228	6,979,133*	4,468,543	28,696,364	1953
1954	12,314,392	15,392,911	1,517,995	335,995	12,857,626*	1,593,525	44,011,733	1954
1955	10,238,930	10,549,977	3,097,649	687,745	7,462,759	648,158	32,687,218	1955

*Includes Pacific Ocean Perch: 1952 - 1,694,355; 1953 - 3,101,562; 1954 - 6,250,000.

NOTE: - 1955 figures are complete through December 1, 1955, and include estimates for the balance of the year prepared by the Washington Department of Fisheries records for the last three years.



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1955 - Coastwise Receipts at Seattle from Alaska - 1955

SPECIES	Dec. '54	Jan. '55	February	March	April	May	June	July	August	Sept.	October	November	12 Months Total
Halibut — Frozen	...	424,936	819,258	934,694	486,637	...	462,400	1,401,900	1,406,400	1,252,500	2,455,000	949,400	10,593,125
Herring — Frozen	...	...	...	...	...	...	14,000	...	...	...	...	...	14,000
Sablefish — Frozen	...	146,052	36,000	88,984	134,635	...	12,500	25,000	134,900	55,100	172,000	112,400	951,511
SALMON:													
Chinook — Fresh	...	2,615	1,250	2,857	3,032	7,028	...	...	7,000	...	...	...	23,782
Chum — Frozen	...	14,091	53,254	21,583	54,667	31,314	...	...	167,500	180,500	175,800	84,600	1,125,901
Pink — Frozen	...	...	55,323	...	...	...	...	...	21,000	12,200	108,323	1,608	108,323
Silver — Frozen	...	18,000	...	...	7,430	...	...	...	729,000	90,500	19,200	3,200	867,330
Sockeye — Frozen	...	428,761	328,541	120,238	62,867	...	...	23,700	178,600	508,400	446,100	628,500	2,861,558
Crabs — Fresh	...	...	...	...	...	23,000	...	...	1,647,000	10,800	20,100	7,200	1,647,000
Crabs — Frozen	...	...	...	17,010	44,700	45,000	30,900	42,900	59,600	78,900	103,700	59,500	70,300
Crabmeat — Fresh	...	...	...	...	...	...	...	...	300	...	...	...	300
Crabmeat — Frozen	...	33,940	...	...	8,190	15,060	7,500	37,300	50,200	135,000	134,000	81,600	511,920
Shrimp — Frozen	...	3,715	11,918	4,990	3,000	20,330	12,400	11,100	...	...	...	7,700	89,658
Shrimpmat — Frozen	...	34,824	38,995	27,648	39,970	24,140	39,500	33,900	9,500	3,500	6,700	37,000	315,838
Total Fresh —	2,615	...	1,250	2,857	3,032	32,028	...	...	14,500	10,800	20,100	7,200	94,382
Total Frozen —	681,383	666,545	1,344,289	1,225,117	842,096	135,844	630,900	1,826,600	4,403,700	2,316,600	3,530,700	1,965,600	19,586,374
GRAND TOTAL —	683,998	666,545	1,344,539	1,227,974	845,128	167,872	630,900	1,826,600	4,418,200	2,327,400	3,550,800	1,972,800	19,682,756
Cured Fish:													
Sablefish — Saled, Bl.	...	...	...	...	...	...	...	...	46	36	5	...	106
Salmon — Mild Cured, Tcs.	...	10	3	...	...	14	797	...	993	253	42	...	2,305
Salmon — Saled, Bl.	...	2	1	...	37	128	...	...	12	24	187	...	223
Livers Frozen: —	...	...	...	...	...	...	...	...	803	117	...	...	920
Livers Frozen: — Oil, Gal.	...	...	...	...	...	...	...	...	138,013	10,855	...	...	148,868

BRITISH COLUMBIA FROZEN FISH PACKS

● British Columbia keeps in step with other fish processing areas on the Pacific coast in the development and marketing of specialty products such as fish sticks and other freeze-cooked or semi-prepared items.

Fish sticks have been in production at British Columbia Packers' big Imperial plant at Steveston for a year and a half, and marketing has been in volume proportionate to sales elsewhere, although the territory has been restricted to Western Canada because of tariff, transportation and other cost factors.

Owing to the relatively low cost of cod in Newfoundland, for instance, Atlantic coast fish stick producers have been able to keep the Eastern

YEAR	Halibut	Salmon	Steelhead & Fillets	Sablefish	Miscellaneous	TOTAL	YEAR
1928	6,922,064	10,183,276	503,798	707,488	1,793,317	20,190,943	1928
1929	7,971,042	7,971,042	324,123	533,000	1,305,888	17,147,476	1929
1930	6,375,642	6,544,460	414,720	645,142	741,366	13,721,350	1930
1931	5,758,952	5,758,952	414,720	292,829	240,469	12,173,420	1931
1932	6,197,495	7,672,062	533,244	307,922	228,740	14,859,463	1932
1933	6,620,254	7,158,967	344,974	386,751	471,924	14,984,870	1933
1934	8,956,815	10,182,469	40,672	180,119	920,509	20,280,582	1934
1935	9,756,717	10,707,787	228,000	789,000	861,860	22,331,364	1935
1936	9,504,340	11,320,303	234,690	1,265,555	762,043	23,062,931	1936
1937	8,550,651	11,698,592	320,361	1,378,442	686,461	23,056,537	1937
1938	12,662,938	11,698,592	320,361	1,328,009	997,260	26,174,069	1938
1939	10,870,867	9,631,742	234,690	1,080,053	25,129,273	27,641,170	1939
1940	13,454,006	9,631,742	188,516	1,285,915	813,956	26,885,888	1940
1941	13,653,612	9,632,364	188,516	1,604,554	1,317,404	27,641,170	1941
1942	14,560,498	12,150,338	18,046	1,697,937	3,541,929	33,979,279	1942
1943	16,571,639	12,313,250	60,076	2,320,558	2,667,881	38,759,103	1943
1944	10,597,337	14,793,573	572,315	1,745,529	3,763,055	39,112,910	1944
1945	12,574,936	18,931,674	1,972,000	1,972,000	5,890,142	39,112,910	1945
1946	10,290,942	14,384,544	1,972,000	1,972,000	11,486,110	42,403,803	1946
1947	12,782,294	13,583,850	1,057,828	1,778,856	6,357,106	42,403,803	1947
1948	14,330,795	15,208,533	1,650,856	1,650,856	18,226,028	48,229,732	1948
1949	11,512,287	15,584,100	3,480,500	1,967,500	6,946,700	44,608,100	1949
1950	12,623,300	23,425,000	701,789	2,292,931	1,050,761	44,608,100	1950
1951	13,356,332	16,000,909	2,292,931	1,050,761	3,720,635	40,195,373	1951
1952	12,992,387	17,351,803	7,418,334	883,718	3,720,635	42,307,128	1952
1953	18,214,460	14,032,572	5,462,997	1,078,236	749,653	39,312,660	1953
1954	16,264,341	12,354,783	4,687,477	838,577	749,653	34,898,841	1954
1955	15,311,383	10,095,148	1,052,911	936,631	1,163,657	28,559,760	1955

NOTE: - Since 1942 all Steelheads have been combined with Salmon, and figures given in the "Steelheads and Fillets" Column for years 1942 cover quantities of fillets of all varieties of fish reported.

Canadian market pretty much to themselves. Labor and raw material costs are both higher on the Pacific than on the Atlantic coast, and selling across the border in the U. S. is made prohibitive by tariff.

B. C. Packers have made no changes in the mechanical apparatus for producing fish sticks, but it has recently switched to different types of breading and batter and oil. Griffiths Laboratories in Eastern Canada are now supplying the breading and batter used at the Steveston plant, and Canada Packers "chipper biscot," manufactured from hydrogenated cottonseed

oil, with antioxidant added, has been in use for several months with success.

● One British Columbia company is doing some experimenting with oyster sticks and this is expected to be a commercial product shortly, if indeed it is not already being marketed. The company interested in this item planned to carry out an extensive study of the product's shelf life during the winter to determine its keeping qualities, but preliminary tests indicated that conditions would be highly favorable and that this new shellfish delicacy should command a ready market.

The nearest approach to this product already being distributed is the frozen oyster pack developed under the supervision of Dr. C. R. Elsey, director of B. C. Packers, and turned out in a neat plastic package. The oysters used in this product are harvested at Mud Bay near Ladner, B. C., where they are packaged and then shipped to the Imperial plant to be frozen and overwrapped.

Fish pastes have been a popular product of this diversified processing operation, and five varieties are being regularly turned out—Sockeye salmon; smoked Chum and Pink salmon; sal-

ALASKA FROZEN FISH PACKS

YEAR	(Pounds)						YEAR
	Halibut	Salmon	Steelhead & Fillets	Sablefish	Miscellaneous	TOTAL	
1928	9,328,837	7,275,009	4,105	623,857	161,332	17,393,140	1928
1929	11,789,477	5,819,643	3,000	514,405	268,857	18,395,382	1929
1930	11,859,772	6,217,498	...	511,249	168,870	18,757,389	1930
1931	6,641,793	5,071,593	4,431	254,856	594,392	12,567,065	1931
1932	2,332,728	5,058,857	1,275	51,284	61,461	7,505,605	1932
1933	5,851,556	4,102,999	3,747	91,066	93,841	10,143,209	1933
1934	6,133,142	5,534,916	27,272	167,725	155,453	12,018,508	1934
1935	5,021,708	4,662,272	7,600	633,412	221,066	10,546,058	1935
1936	7,287,861	5,284,030	24,091	834,140	88,705	13,518,827	1936
1937	7,465,551	5,794,466	2,500	1,924,817	305,149	15,492,483	1937
1938	6,904,640	7,918,897	4,274	773,787	68,305	15,669,903	1938
1939	6,389,488	4,783,751	2,465	1,525,600	280,794	12,982,098	1939
1940	8,310,553	6,304,064	11,413	1,824,532	682,721	17,133,283	1940
1941	7,564,940	6,119,050	...	1,720,977	924,420	16,329,387	1941
1942	8,720,056	7,908,717	8,606	4,851,974	361,554	21,850,907	1942
1943	11,068,724	9,114,694	...	3,986,438	825,505	24,995,361	1943
1944	19,214,203	10,753,715	...	5,413,503	1,892,846	37,274,267	1944
1945	19,353,649	13,374,086	...	5,955,388	3,396,849	42,079,972	1945
1946	14,966,616	12,036,956	30,000	4,519,989	2,075,530	33,629,091	1946
1947	20,638,301	10,197,755	4,597	866,535	383,473	32,110,661	1947
1948	26,020,134	9,582,232	165,370	5,065,056	5,290	40,838,082	1948
1949	20,914,221	12,222,337	1,309	3,772,851	271,901	37,182,619	1949
1950	25,625,940	8,467,426	5,113	566,965	98,409	34,763,853	1950
1951	19,577,948	8,780,110	6,988	3,241,556	820,473	32,427,075	1951
1952	17,341,747	5,327,279	8,977	988,520	205,955	23,872,478	1952
1953	19,727,501	6,399,247	46,675	2,599,418	730,465	29,503,306	1953
1954	20,987,363	9,341,468	57,468	3,072,158	203,706	33,662,163	1954
1955	16,597,154	4,459,926	328,613	2,389,290	102,615	23,877,598	1955

NOTE: - Since 1942 Steelheads have been combined with Salmon. Figures given in this column cover the quantities of the frozen fillets of all varieties of fish reported. Data in this table based on individual reports of packers and custom cold storages to this journal.

PACIFIC COAST FROZEN FISH

YEAR	(Pounds)						YEAR
	Halibut	Salmon	Steelhead & Fillets	Sablefish	Miscellaneous	TOTAL	
1928	20,180,501	23,522,228	1,736,900	3,037,875	3,147,845	51,625,349	1928
1929	23,192,029	20,285,535	1,989,936	2,467,317	3,881,054	51,815,871	1929
1930	21,262,804	20,142,524	1,795,703	3,706,823	4,377,468	51,285,322	1930
1931	19,274,638	18,706,304	1,787,279	2,065,327	3,317,959	45,151,507	1931
1932	14,943,916	19,099,265	1,084,689	1,904,579	1,828,499	38,860,948	1932
1933	21,197,099	21,101,484	1,368,364	1,851,856	2,620,049	48,138,852	1933
1934	25,010,373	25,181,600	1,082,339	2,354,183	3,731,735	57,360,230	1934
1935	22,193,028	27,979,608	695,447	4,158,382	4,288,100	59,314,565	1935
1936	24,483,127	24,168,556	888,677	3,817,582	3,849,238	57,202,180	1936
1937	25,611,959	28,809,866	723,857	5,964,158	4,227,376	65,337,216	1937
1938	26,290,123	29,019,550	794,183	4,608,638	6,091,588	66,804,082	1938
1939	27,884,761	19,812,999	544,865	5,036,206	6,313,548	59,592,379	1939
1940	30,989,043	25,106,033	281,986	5,339,661	8,207,464	69,924,187	1940
1941	32,267,665	23,961,770	93,541	5,019,374	10,963,419	72,305,769	1941
1942	32,334,253	26,256,142	249,336	7,983,957	16,986,000	83,809,688	1942
1943	25,882,523	25,930,418	4,447,875	7,546,674	20,223,179	84,030,619	1943
1944	37,668,595	31,748,145	9,199,424	9,777,304	17,200,082	105,593,550	1944
1945	36,879,253	44,991,950	8,115,197	8,552,441	30,774,204	129,313,045	1945
1946	36,941,548	38,036,107	10,661,450	8,611,842	22,910,725	117,161,672	1946
1947	42,294,602	29,928,104	4,454,941	2,633,912	12,660,753	91,972,312	1947
1948	45,098,451	30,376,166	8,619,585	8,570,289	20,778,163	113,432,654	1948
1949	40,286,125	34,294,242	6,394,213	7,740,630	9,479,721	98,194,931	1949
1950	47,401,296	37,230,172	7,152,856	2,506,826	13,698,707	107,989,857	1950
1951	41,032,442	30,003,546	7,872,151	6,281,413	13,216,333	98,405,885	1951
1952	38,907,883	29,817,889	16,167,000	3,772,951	8,948,115	97,613,838	1952
1953	47,895,545	28,145,986	11,584,046	5,706,589	5,016,990	98,349,156	1953
1954	50,440,248	27,935,024	11,260,372	5,797,886	5,550,693	100,984,223	1954
1955	43,306,006	20,109,914	7,007,435	5,309,976	4,091,047	79,824,378	1955

NOTE: - Since 1942 Steelheads have been combined with Salmon. Figures given in this column for years after 1942 cover the quantities of frozen fillets of all varieties of fish reported. Data in this table based on individual reports of principals and custom storages to this journal.

mon-and-shrimp, using Coho and Blueback grades; bloater, with smoked herring, similar to the well known United Kingdom specialty, and finally shrimp spread.

B. C. Packers is believed to be the only company on the Coast making use of tuna as a fish paste, as distinct from devilled shrimp in which dark as well as white meat is used. The Canadian product is restricted to the use of tuna flakes from imported frozen Japanese tuna.

The principal ingredients are a cereal flour for binder, salad oil, used instead of lard which usually figures in the processing of other spreads, and seasoning. These materials in selected proportions are mixed and ground in a colloid mill to obtain a fine texture and improved flavor, and they are then packed into 2½ ounce glass tumblers and vacuum-closed in a retort with superimposed pressure, cooled and labeled and finally packed in cartons containing 24 tumblers.

● Production of a fancy herring item known by the trade name *Tasty Snacks* was initiated during the past year following lengthy experiments extending back to the war years when operations were curtailed by tinplate shortage.

In the processing of *Tasty Snacks* a Rowton herring outlet machine figures in the first step, the fish being fed into it tail first and emerging completely cleaned as "butterfly" cutlets. From the Rowton machine, supplied

Astoria Landings, Average Prices by Months -- 1955

(Cents Per Pound)												1955 Average (11 Months)
SPECIES	January	February	March	April	May	June	July	August	September	October	November	
GILL-NET												
Salmon:												
Chum	...	...	...	...	...	...	...	...	...	10.3	11.7	11.0
Blueback	...	...	...	...	...	30.0	30.0	30.0	...	...	...	30.0
Chinook	...	40.0	...	...	30.0	30.0	30.0	24.4	15.5	21.3	21.4	26.5
Silver	...	...	...	...	...	...	...	16.0	17.0	19.5	21.5	18.8
Steelhead	...	27.0	...	...	10.0	18.0	18.0	18.4	17.2	19.3	22.2	19.0
Shad	...	...	...	...	37.0	14.6	2.3	16.0	...	...	...	10.1
Sturgeon:												
White	...	15.0	...	...	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Green	...	...	...	...	7.0	6.5	6.5	6.0	5.6	6.5	...	6.0
Flounder	...	1.5	...	...	2.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
TROLL												
Salmon:												
Chinook, large	...	...	43.4	42.9	37.4	38.7	40.3	41.6	41.3	38.8	...	40.2
Chinook, small	...	...	...	...	27.4	27.2	28.6	29.0	28.4	28.0	...	30.5
Chinook, white	...	...	...	...	28.8	...	...	23.6	...	...	...	28.9
Silver	...	...	...	...	...	17.2	20.6	26.0	27.1	26.1	...	25.0
Pink	...	...	...	...	...	...	15.0	15.0	...	...	...	15.0
Halibut*	...	...	...	...	10.0	10.0	10.0	10.0	15.0	...	...	10.4
Miscellaneous*	...	...	...	...	4.0	3.9	4.0	3.9	3.9	3.3	...	4.0
TRAWL												
Cod	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Flounder	4.0	...	4.0	...	...	...	4.0	...	...	...	4.0	4.0
Lingcod*	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Perch, Pacific Ocean	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Rockfishes	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Sablefish*	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Sole:												
Dover	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
English	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Petrale	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Rex	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Animal Food	...	...	...	...	...	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Miscellaneous	...	...	...	...	...	...	...	...	...	...	...	2.5
HALIBUT												
Halibut No. 1	...	...	...	...	14.5	16.8	19.4	18.6	18.4	...	...	17.0
Halibut No. 2	...	...	...	...	13.0	13.0	18.7	15.8	15.0	...	...	14.7
S MELT												
Smelt, Dip-Net	...	...	3.0	3.0	...	...	...	...	...	...	...	3.0
Smelt, Gill-Net	...	...	4.5	...	...	...	...	...	...	...	...	4.5
SHELLFISH												
Crabs	11.4	12-13	13.3	14.7	15.0	15.0	15.0	15.0	14.0	12.9	12.1	13.3

*Dressed.

1955 - OREGON TRAWL FISH LANDINGS - 1955

Species	Oct. '54	Nov. '54	Dec. '54	Jan. '55	Feb.	March	April	May	June	July	August	Sept.	TOTAL
SOLE:													
Petrale	120,392	39,808	112,116	168,036	65,191	123,062	50,344	154,451	223,662	195,750	197,924	134,210	1,584,946
English	67,868	25,368	31,120	43,437	56,565	96,608	51,076	165,277	150,262	205,099	306,653	192,831	1,392,162
Dover	322,474	77,311	210,754	36,234	81,933	198,597	216,771	365,983	673,612	406,919	546,291	412,208	3,549,087
Rex	97,964	45,771	19,750	25,741	26,723	76,995	49,814	194,180	394,512	387,632	510,104	245,401	2,074,587
Turbot	68,498	22,472	11,343	8,670	44,027	31,541	26,162	168,730	401,928	429,855	363,231	245,887	1,822,344
Miscellaneous	29,761	3,406	3,165	28,163	2,572	38,214	29,847	114,997	139,052	185,052	246,767	50,504	871,500
Total Sole	706,957	214,136	388,248	310,281	277,011	565,015	424,014	1,163,618	1,983,028	1,810,307	2,170,970	1,281,041	11,294,626
Flounders	22,569	22,833	2,256	6,373	25,633	13,068	20,001	183,816	85,743	96,266	211,524	137,203	827,285
Cod, True	29,862	11,394	14,554	18,472	23,495	16,687	17,092	55,038	33,391	36,835	62,005	27,536	346,361
Ling Cod	20,520	4,695	3,630	4,454	17,463	20,081	25,118	55,095	40,830	54,447	100,821	72,457	419,611
Rockfish	121,102	115,498	154,673	163,808	224,571	445,375	180,523	566,724	197,182	291,244	322,732	400,485	3,183,917
Ocean Perch	265,200	116,433	127,148	137,998	108,371	222,086	385,539	474,782	313,098	129,608	305,128	262,460	2,847,851
Miscellaneous	27,198	37,267	35,542	31,270	26,666	262,464	20,898	206,036	355,880	240,558	340,959	671,930	2,256,668
Grand Total	1,193,408	522,256	726,051	672,656	703,210	1,544,776	1,073,185	2,705,109	3,009,152	2,659,265	3,514,139	2,853,112	21,176,319

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to B. C. Packers by Grove Processing Co., the fillet enters a rotary screen washer for removal of scales and general cleaning. Five minutes in the brining tank prepares it for the cutting table, and the product then goes to a series of trays for draining and thence to a Torry Research Station-type smokehouse for 90 minutes in a tem-

perature of 80 degrees F. Oak sawdust imparts a tangy smoked flavor.

From the smokehouse the fillets move onto the second series of operations—first to the filling tables, where they are manually packed into oval cans, which are then placed on a conveyor and carried to the smoke-box turnover, where they are inverted be-

fore entering the steam chamber to permit excess oils and moisture to escape. The cans are placed on a tray, covered with a special perforated kraft paper and then placed in the steam box. Use of perforated wax paper was first developed for the pre-cooking of tuna, and it prevents the wire mesh from marking the fish which come

Landings of Fish on the Oregon Side of the Columbia River

MONTH	S SALMON					S TURGEON		SHAD	SMELT	TOTAL Poundage
	Chinook	Steelhead	Blueback	Silver	Chum	White	Green			
1954										
October	55,554	14,767	...	60,448	41,162	21,496	350	7	...	193,784
November	8,038	43,128	...	30,214	142,413	13,171	...	...	...	236,964
December	29	4,969	...	492	2,268	766	...	...	...	8,524
1955										
January	407	2,133	...	...	...	1,025	...	...	27,360	30,925
February	47,120	76,223	...	...	9	14,275	...	...	287,610	405,237
March	6,345	1,377	...	...	...	1,000	...	...	185,170	193,892
April	132,868	285	...	...	...	1,493	...	...	2,850	137,496
May	1,956,840	12,638	...	...	...	45,850	381	20,827	...	2,036,536
June	497,768	46,840	6,589	...	...	9,381	2,177	79,848	...	642,603
July	245,198	284,462	49,154	...	...	11,881	3,095	26,404	...	620,194
August	1,807,894	263,399	16	2,705	...	24,332	34,765	6	...	2,133,117
September	547,160	26,832	...	154,039	147	11,022	2,231	950	...	742,381
TOTAL	5,305,221	777,053	55,759	247,898	185,999	155,692	42,999	128,042	482,990	7,381,653

OREGON OTTER TRAWL LANDINGS

YEAR	SOLE				Flounders	"Turbot"	"Cod" Miscel.	Lingcod	Rockfish	Ocean Perch	Total
	Petrals	English	Dover	Other							
1942	3,745,236	227,783	2,308,308	1,671,162	443,840	71,137	47,255	989,142	1,728,299	1,086,242	12,318,404
1943	3,805,094	898,639	6,431,666	2,239,125	858,051	2,831,013	32,731	934,878	6,762,494	1,601,368	26,395,069
1944	2,019,148	1,057,701	1,593,469	254,400	877,048	700,147	594,810	1,208,051	11,266,874	398,836	19,970,484
1945	1,574,143	1,096,601	2,704,216	238,507	1,024,288	168,811	412,731	1,015,215	17,365,866	40,554	25,640,933
1946	2,984,092	3,950,609	3,197,988	132,136	1,279,839	297,708	260,574	1,150,803	10,671,012	31,310	23,956,071
1947	1,443,936	1,883,438	2,031,905	139,791	667,347	723,497	30,194	569,226	4,637,594	92,344	11,688,763
1948	2,605,460	3,266,422	2,802,181	272,878	1,428,660	1,219,208	29,083	798,952	3,890,003	338,739	16,651,586
1949	1,514,762	1,092,493	3,003,574	299,785	272,042	1,723,963	4,821	728,464	3,307,595	591,842	12,539,341
1950	3,151,833	2,399,103	6,306,144	392,775	355,125	...	349,660	649,719	4,018,991	Dogfish	17,623,350
1951	2,052,366	2,420,333	8,227,444	859,820	351,001	...	672,656	887,187	1,659,212	3,524,208	20,654,227
1952	1,545,540	1,949,294	7,289,059	1,308,778	242,535	...	388,111	511,269	3,722,048	4,431,991	21,388,626
1953	1,028,578	1,784,309	3,146,709	1,989,828	317,293	844,921	419,852	315,347	3,012,714	3,281,196	16,140,747
1954	959,674	1,417,588	2,580,257	2,096,807	561,723	1,112,708	1,190,474	276,952	2,608,517	2,882,847	15,687,547
1955	1,584,946	1,392,162	3,549,087	2,946,087	827,285	1,822,344	2,603,029	419,611	3,183,917	2,847,851	21,176,319

COLUMBIA RIVER FROZEN FISH PACKS

YEAR	(Pounds)						YEAR
	Halibut	Salmon	Steelhead & Fillets	Sablefish	Miscellaneous	TOTAL	
1928	...	326,541	1,156,598	30,000	102,188	1,615,327	1928
1929	24,000	607,483	1,544,779	78,000	233,527	2,487,789	1929
1930	14,700	374,322	1,322,737	...	547,006	2,258,765	1930
1931	4,699	392,581	1,311,033	35,600	559,993	2,303,906	1931
1932	...	733,234	538,795	10,000	54,427	1,336,456	1932
1933	75,000	886,789	859,563	...	153,834	1,975,186	1933
1934	199,362	489,183	959,916	49,620	154,765	1,852,846	1934
1935	161,827	943,442	461,847	60,494	243,934	1,871,544	1935
1936	48,818	178,922	629,896	117,624	123,920	1,099,182	1936
1937	25,000	391,000	520,996	35,000	61,253	1,033,249	1937
1938	211,350	207,478	465,909	118,465	119,594	1,122,796	1938
1939	252,692	607,100	352,884	135,347	243,600	1,591,623	1939
1940	553,269	267,370	33,573	98,642	253,634	1,206,488	1940
1941	602,210	178,498	1,628	118,120	761,013	1,661,469	1941
1942	216,684	563,780	222,684	186,710	1,556,008	2,745,866	1942
1943	161,452	956,719	3,958,405	359,050	2,311,503	7,747,129	1943
1944	628,285	1,917,542	5,733,930	178,742	758,745	9,217,244	1944
1945	506,242	2,655,787	2,176,400	270,634	8,670,915	14,279,978	1945
1946	555,884	4,373,849	4,511,986	416,003	3,147,128	13,004,848	1946
1947	618,266	1,272,508	1,681,488	60,786	985,697	4,618,745	1947
1948	410,091	1,187,802	4,241,705	329,857	...	6,169,455	1948
1949	324,527	458,280	2,567,863	289,205	121,994	3,761,869	1949
1950	417,651	483,068	3,382,682	63,081	333,117	4,679,599	1950
1951	291,936	735,305	3,199,153	189,694	124,761	4,540,849	1951
1952	219,223	1,157,484	3,627,761	166,072	136,084	5,506,624	1952
1953	389,483	830,630	2,382,420	204,842	676,081	4,283,456	1953
1954	864,352	788,963	1,672,109	154,456	210,124	3,690,004	1954
1955	276,224	554,345	1,121,886	118,000	123,275	2,193,730	1955

NOTE: - Since 1942 Steelheads have been combined with Salmon. Figures given in this column for years after 1942 cover quantities of frozen fillets of all varieties of fish reported. Data in this table based on reports of principals and custom freezers to this journal.

free from the smooth surface without damage.

B. C. Packers' Tasty Snacks differ from Norwegian kippered snacks in that the herring used are considerably smaller, and the smoke curing is much milder.

The fish stick operation is similar

in general principle to that in scores of other plants in the U. S. and in Eastern Canada, except that different equipment is used. One of the features of the Imperial plant process is the use of specially designed aluminum pans which, when loaded, are subject

to pressure and freezing in a Birdseye machine. The cutter used is a product of Kleen-Kut Manufacturing Co., Cleveland. The toaster is a Wells Manufacturing Co., San Francisco, unit, and an Annettsberger gas-fired machine is used for boiling the vegetable oil.

SALMON ESCAPEMENT OVER BONNEVILLE DAM

(In numbers of fish as recorded by U.S. Engineers)

Year	CHINOOK												Total
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
1938	*	*	*	*	22,371	8,221	6,556	34,765	197,294	2,302	263	27	271,799
1939	6	12	121	51,410	25,159	5,602	17,845	32,919	150,851	2,197	78	16	286,216
1940	...	...	504	37,253	28,621	7,028	14,938	58,643	240,515	3,765	287	34	391,588
1941	4	...	1,360	51,501	19,445	7,013	9,395	12,590	351,967	7,179	866	138	461,458
1942	1	15	34	9,506	30,915	11,816	12,821	27,581	305,935	4,485	639	190	403,938
1943	11	6	43	12,172	53,268	5,440	8,044	28,985	201,414	3,354	365	21	313,123
1944	1	2	65	15,670	15,127	4,363	8,241	55,468	139,254	2,388	164	20	240,763
1945	6	4	81	17,148	26,276	11,293	16,327	32,254	189,675	4,281	137	6	297,488
1946	1	2	25	14,179	53,313	30,051	20,960	45,421	277,075	4,521	170	25	445,743
1947	...	2	141	83,520	49,899	25,502	13,358	43,062	260,385	3,945	526	36	480,376
1948	10	...	251	21,205	20,262	44,137	23,100	35,934	270,238	3,928	467	23	419,555
1949	...	...	5	5,765	44,304	24,232	22,500	41,500	137,599	1,571	215	6	277,697
1950	...	...	21	6,630	50,638	16,667	32,937	40,462	205,521	4,356	143	...	357,375
1951	...	...	32	28,801	86,055	54,889	24,394	33,785	97,131	6,489	212	...	331,788
1952	...	...	255	8,130	107,807	62,491	21,800	82,290	135,053	2,576	477	**	420,879
1953	**	**	1,254	126,450	42,583	27,228	30,593	27,398	75,145	1,495	333	**	332,479
1954	**	**	657	82,877	51,230	46,801	32,596	24,969	80,426	1,189	200	**	320,945
1955	**	**	1,391	84,436	85,769	45,502	37,437	32,833	70,558	1,803	124	...	359,853

Year	STEELHEAD												Total
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
1938	*	*	*	*	6,622	2,382	19,455	29,231	46,618	2,264	339	92	107,003
1939	23	19	560	8,110	1,587	1,490	36,581	38,062	33,891	1,264	216	119	121,922
1940	5	96	1,688	4,125	998	4,489	61,175	46,071	64,377	1,786	292	59	185,161
1941	37	76	1,641	6,392	1,518	994	21,940	29,600	50,542	3,980	1,063	304	118,087
1942	4	37	256	3,642	4,159	1,588	19,905	41,973	76,822	2,411	566	182	151,345
1943	14	18	654	3,374	4,698	1,564	7,755	29,894	41,051	2,444	573	92	92,131
1944	50	157	1,019	6,142	2,227	1,169	21,868	24,508	35,907	6,129	1,119	226	100,521
1945	1,003	1,078	3,066	4,685	1,557	1,109	24,600	40,483	40,194	1,825	302	142	120,144
1946	63	551	3,040	9,839	5,481	3,265	20,559	58,356	38,296	2,067	262	769	142,548
1947	197	321	1,968	6,889	2,025	1,595	28,134	40,819	50,025	2,905	443	113	135,434
1948	154	119	1,631	4,473	1,170	1,895	33,191	53,621	40,609	1,742	381	76	139,062
1949	1	...	1,689	3,293	1,712	1,264	34,314	54,281	20,786	1,161	686	98	119,285
1950	13	...	1,156	4,537	1,667	691	25,142	53,904	24,226	1,932	811	...	114,079
1951	...	...	375	2,338	1,568	5,187	74,980	39,712	15,357	947	225	...	140,689
1952	...	...	278	1,248	1,751	8,202	118,110	79,735	48,293	2,735	638	**	...
1953	**	**	1,310	5,308	1,456	5,314	106,712	64,006	36,107	2,797	905	**	223,915
1954	**	**	679	5,511	1,571	6,115	59,443	65,234	34,941	2,209	551	**	176,254
1955	**	**	1,006	2,100	1,149	2,418	79,124	84,746	24,239	3,367	268	...	198,417

Year	SILVERS												Total
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
1938	*	*	*	*	...	...	...	3,070	10,995	972	141	7	15,185
1939	3	...	...	...	...	...	...	1,810	12,226	310	15	18	14,382
1940	3	...	...	...	...	...	...	1,451	10,212	213	33	5	11,917
1941	2	...	...	...	...	...	...	1,317	16,061	369	160	2	17,911
1942	...	...	...	...	...	...	...	1,193	11,061	147	...	...	12,401
1943	...	...	...	...	...	...	...	762	1,676	89	20	...	2,547
1944	...	...	...	...	...	...	...	1,052	3,022	103	29	2	4,208
1945	...	...	...	...	...	...	2	239	533	16	...	1	791
1946	...	10	4	...	...	...	22	227	3,609	1	...	24	3,897
1947	12	2	1	...	...	...	...	217	10,928	10	3	1	11,174
1948	1	...	...	...	...	...	11	158	3,893	10	3	5	4,081
1949	...	...	...	...	...	...	17	270	703	5	8	1	1,004
1950	...	...	...	...	...	...	...	1,572	8,545	36	...	...	10,153
1951	...	...	...	...	...	...	...	197	4,773	225	6	...	5,201
1952	...	**	...	...	...	...	10	2,581	5,131	22	24	**	7,768
1953	*	*	...	...	...	...	1	7,094	5,896	22	11	**	13,018
1954	*	*	...	...	...	...	...	668	3,319	74	1	**	4,062
1955	**	**	...	...	...	...	...	443	3,188	94	...	...	3,725

Year	BLUEBACK												Total
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
1938	*	*	*	*	1,025	17,811	53,864	2,097	235	6	2	...	75,040
1939	...	...	...	48	189	29,386	43,124	616	19	...	...	...	73,382
1940	...	...	...	...	206	59,639	85,885	3,063	11	1	...	...	148,805
1941	...	...	...	299	1,052	23,536	39,193	1,615	50	...	...	...	65,745
1942	...	...	...	...	13	12,624	41,301	1,477	60	...	...	...	55,475
1943	...	...	...	...	9	4,525	33,613	1,697	1	...	...	...	39,845
1944	...	...	...	...	16	3,098	11,171	659	126	...	...	...	15,071
1945	...	...	1	...	521	1,507	6,903	498	10	1	...	...	9,501
1946	...	...	10	9	67	7,805	64,704	1,746	21	2	...	...	74,354
1947	...	...	...	...	5	59,378	108,175	3,564	15	1	...	1	171,139
1948	...	...	...	...	...	12,023	117,652	1,849	13	4	...	...	131,541
1949	...	...	...	...	151	9,013	41,619	655	6	...	...	...	51,444
1950	...	...	...	...	...	...	75,784	1,826	42	...	...	...	77,993
1951	...	...	...	...	25	81,045	87,104	1,214	40	...	...	...	169,428
1952	**	**	7	1	3	136,939	47,188	472	34	2	8	...	184,654
1953	**	**	57	27	663	45,711	186,933	1,776	50	2	...	**	235,219
1954	**	**	1	...	13	52,359	76,505	1,212	17	...	...	**	130,107
1955	**	**	...	...	79	21,923	214,860	866	11	9	...	...	237,748

* Data not available. Figures for 1938 are from May 7 to Dec. 31, inclusive.

** Counting suspended during winter months.

NOTE: - Escapement of Chums in any quantity occurs only in last 3 months of year; therefore Chums are listed only in historical table, showing yearly totals.

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1955 -MILD CURED SALMON- 1955

Company	Location	Tierces (825 lbs. Net)	Company	Location	Tierces (825 lbs. Net)
ALASKA			BRITISH COLUMBIA		
Alaska Fisheries, Inc.	Juneau	38	British Columbia Packers, Ltd.	All Stations	92
Booth Fisheries Corporation	S. E. Alaska	70	Canadian Fishing Company, Ltd.	All Stations	36
Farwest Wrangell Company	Wrangell	289	Fishermen's Cooperative Federation	Prince Rupert	260
	Juneau	22	Miscellaneous	Vancouver	102
Halibut Liver Producers	Pelican	297		Vancouver, etc.	188
	Sitka	109			
	Ketchikan	3			
Kayler-Dahl Fish Company	Petersburg	140	TOTAL BRITISH COLUMBIA		678
McCallum-Legaz Fish Company	Sitka	96			
New England Fish Company	S. E. Alaska	346			
Northern Commercial Company	Kwiguk (Yukon)	120			
	Juneau	81			
Northern Products Corporation	Pelican	70	PUGET SOUND		
	Sitka	206	Booth Fisheries Corporation	Seattle	121
	Petersburg	61	Eardley Fisheries Company	Seattle	620
	Juneau	34	Kayler-Dahl Fish Company	Seattle	40
Oxenberg Bros.	Pelican	46	McCallum-Legaz Fish Company	Seattle	190
	Ketchikan	62	New England Fish Company	Everett, etc.	196
E. C. Phillips	Ketchikan	85	San Juan Fishing & Packing Company	Seattle	334
Seaboard Packing Company	Sitka	94	Seaport Fish Company	Seattle	149
Sebastian-Stuart Fish Company	Juneau	30	Washington Fish & Oyster Company	Seattle	746
	Pelican	23	Whiz Fish Products Company	Seattle	400
Seldovia Bay Packing Company	Seldovia	86			
	Juneau	3	TOTAL PUGET SOUND		2,796
Pick Shapiro	Pelican	12			
Vita Food Products, Inc.	S. E. Alaska	622	OREGON		
Whiz Fish Products Company	Pelican	150	Columbia River Packers Association, Inc.	Astoria	189
	Ketchikan	180			
TOTAL ALASKA		3,375	CALIFORNIA		
			Miscellaneous (Estimated)	Various	4,200
			GRAND TOTAL		11,238

Record California Splitting Lifts Pack to 9-Year High

● Leverage applied by an excellent run of troll salmon off the northern California coast lifted the Pacific Coast pack of mild cure to 11,238 tierces, the highest level in nine years. Gain over the year before was 3,425 tierces.

When it became obvious quite

early in the season that Alaska was due for a sharp drop in troll salmon production suitable for splitting, efforts to get fish into casks were stepped-up on Puget Sound and in California. Both these areas succeeded in improving their production—California vastly.

Its pack for the year, on the order of 4,200 tierces, was the biggest put up in that state since 1913—and was the all-time record for California troll fish curing.

British Columbia splitting was just about average for recent years, up a shade from 1954.

Annual OREGON TROLL SALMON LANDINGS

Year	(Pounds)							Year
	Columbia River		Coastal Ports		State Total		Oregon Total Both	
	Chinook	Silver	Chinook	Silver	Chinook	Silver		
1942	323,769	100,843	320,766	926,936	644,535	1,027,779	1,672,314	1942
1943	157,814	125,618	247,349	534,813	405,163	660,431	1,065,594	1943
1944	457,721	286,637	815,254	1,184,605	1,272,975	1,471,242	2,744,217	1944
1945	1,012,524	231,774	979,105	950,614	1,991,629	1,183,388	3,174,017	1945
1946	1,063,943	478,100	1,522,452	935,182	2,586,395	1,413,381	3,999,776	1946
1947	626,276	598,735	1,948,432	1,278,140	2,574,708	1,876,875	4,451,583	1947
1948	532,788	409,015	984,613	932,557	1,517,401	1,341,572	2,858,973	1948
1949	223,938	163,380	1,136,868	1,126,669	1,360,806	1,290,049	2,650,855	1949
1950	291,386	365,540	731,395	883,407	1,022,781	1,248,947	2,271,728	1950
1951	464,973	589,697	2,135,752	1,688,096	2,600,725	2,277,793	4,878,518	1951
1952	821,404	532,224	2,262,898	2,242,232	3,084,300	2,774,456	5,858,758	1952
1953*	518,228	368,730	1,404,483	1,937,542	1,922,711	2,306,272	4,228,983	1953
1954	520,396	243,107	3,277,655	999,696	3,798,051	1,242,803	5,040,854	1954
1955*	520,697	320,986	2,898,812	1,522,937	3,419,509	1,843,923	5,263,432	1955

* Total for first 9 months only.

PACIFIC MILD CURED SALMON PACK

(IN TIERCES OF 825 LBS. NET WEIGHT)

YEAR	Alaska	British Columbia	Puget Sound	Columbia River	Oregon Coast	California Coast	Sacramento River	Kamchatka	Recapitulation		ANNUAL TOTALS	YEAR
									Kings	Silvers		
1900				1,275			950		Segregation of pack as to species not available for years prior to 1923.		2,225	1900
1901	67		600	3,000			3,100				6,767	1901
1902	67		425	4,213	188		504				7,722	1902
1903	8		824	6,725			354				11,511	1903
1904	34		1,250	9,088			448				15,539	1904
1905	189	1,175	3,000	9,805	415		310				17,873	1905
1906	1,126	957		8,000	740		685				13,685	1906
1907	1,657	1,993	2,060	6,070	860		722				17,464	1907
1908	1,378	1,060		4,960			252				10,893	1908
1909	2,292	1,560	2,109	5,540	664		991				18,267	1909
1910	3,357	1,638	2,435	7,922	1,465		75				22,408	1910
1911	3,164	2,006	2,745	8,185	1,377		770				19,758	1911
1912	5,245	1,380	3,013	5,824	3,479		100				22,315	1912
1913	7,440	2,125	3,631	5,746	2,681		550				26,952	1913
1914	3,872	3,182	1,934	5,205	457	1,476	1,829				17,955	1914
1915	2,966	1,119	2,235	4,078	333	945	1,630				13,306	1915
1916	4,475	767	1,755	4,656	194	1,069	650				13,566	1916
1917	2,955	429	1,063	1,886		300	1,508				8,181	1917
1918	4,234	729	1,093	1,804	275	721	1,913				9,869	1918
1919	6,803	1,173	2,423	3,328	148	2,381	2,355				18,611	1919
1920	2,770	1,116	2,036	2,275	102	1,793	1,345				11,437	1920
1921	3,966	1,076	4,517	3,051	180	1,251	812				14,833	1921
1922	5,158	2,253	4,727	1,621	162	550	1,195				15,666	1922
1923	4,075	1,819	5,799	1,769	176	1,229	606		15,129	344	15,473	1923
1924	6,069	2,969	6,409	2,320	286	2,624	1,291		21,476	492	21,968	1924
1925	7,119	3,098	5,600	2,746	547	2,241	1,523	500	22,530	844	23,374	1925
1926	5,781	2,183	4,087	1,055	1,205	929	1,767	650	16,585	1,072	17,657	1926
1927	8,982	2,689	5,160	951	918	927	1,125	854	19,390	2,216	21,606	1927
1928	5,784	2,676	4,304	1,305	2,163	1,686	179	783	14,051	4,046	18,880	1928
1929	5,477	3,016	4,311	1,969	1,787	1,160	155	1,083	15,749	3,209	18,958	1929
1930	5,331	2,630	4,361	1,068	102	1,184	124	2,144	16,049	895	16,944	1930
1931	4,123	1,083	5,700	1,251	372	1,027	164	712	13,862	570	14,432	1931
1932	5,560	1,542	3,650	2,012	1,119	752	294	640	13,443	2,126	15,569	1932
1933	4,852	3,097	3,527	2,431	660	1,392	37	340	15,295	1,041	16,336	1933
1934	4,908	4,657	3,882	1,855	270	1,572	5	776	16,960	965	17,925	1934
1935	5,487	2,665	3,563	1,730	210	2,090	439	670	15,450	1,404	16,854	1935
1936	5,222	1,642	4,897	1,138	68	1,939	366	840	15,611	495	16,106	1936
1937	6,373	4,055	2,775	604		1,026	49	778	15,552	108	15,660	1937
1938	7,786	3,128	3,657	1,292	387	627	945	787	16,451	2,158	18,609	1938
1939	7,724	2,802	2,937	501	20	417	119	600	14,905	224	15,129	1939
1940	5,210	693	3,531	33		711	308	11	10,283	714	10,997	1940
1941	8,862	1,474	3,561	229		360	15		14,174	302	14,501	1941
1942	6,748	1,055	2,494	20					10,241	76	10,317	1942
1943	3,869	811	1,022	21		166			5,278	611	5,889	1943
1944	3,518	2,019	959	16		1,259	1,329		7,989	*1,050	9,100	1944
1945	7,763	1,209	1,790	159		*1,065	1,570		10,843	*3,200	13,556	1945
1946	6,824	1,975	2,170	96			12,764		13,216	613	13,829	1946
1947	5,919	1,675	2,129	99			919		10,631	110	10,741	1947
1948	5,076	1,025	2,282	77					8,490	36	8,456	1948
1949	4,449	1,177	2,049	86		891			8,625	27	8,652	1949
1950	4,809	889	3,264	90		1,214			10,109	157	10,266	1950
1951	4,671	897	2,436	20		1,200			9,150	74	9,224	1951
1952	3,489	752	2,318	4		493			7,052		7,052	1952
1953	4,484	742	2,688	30		1,033			9,209	75	9,277	1953
1954	4,003	645	2,155			1,010			7,500	313	7,813	1954
1955	3,375	678	2,796	189		4,200			11,238	**	11,238	1955

NOTE: - Mild cured Falls not included. *Estimated segregation. In 1945 the Silver category includes 200 tierces of Sockeyes.
 † Segregation as to district not available. **Species segregation not available.

● Alaska's mild cured salmon pack of 3,375 tierces in 1954 was the smallest the territory has put-up in any year since 1920—and this in spite of the fact that the lowered breaking point on salmon for curing was in effect.

It is notable that the over-all increase in the pack of mild cured salmon—to 11,238 tierces, largest since 1946, was accomplished in spite of the large—and growing—utilization of frozen salmon for smoking.

● Despite the large production of the 1955 mild cure operations, biologists reported at the end of the season that the future prospects for salmon trolling are impaired by the severe decline of the fall Chinook run to the

Columbia River, which they considered the mainstay of the troll catch. This salmon population has shown signs of marked depletion for the past five years and the conservation authorities of the three Pacific States—and even Alaska—are giving evidence of serious concern. The scientists of the state were recommending that one month be cut from each end of the season for ocean trolling for Chinook or King salmon, which would make the trolling season in the Pacific Northwest states run from April 15 to Sept. 30. In California the season already is even shorter, running from May 1 to September 30.

These seasons for salmon trolling are based on the legality of landing salmon caught by means of trolling in the states. Inasmuch as most trolling is done outside territorial waters, the states are without authority to forbid fishing, but they can prevent landing of fish during the period closed to trolling in territorial waters.

In counting this proposal for limitation upon ocean fishing for King or Chinook salmon, organizations of troll fishermen early in 1956 were proposing that all fishing for Chinook or Silver salmon, including sport fishing, be brought under the direct authority and control of the International Pacific Salmon Fisheries Commission already charged with responsibility over the Fraser River Sockeye salmon resource.

Perfected **Low** **Temperature** **Drying of** **Fish Meal**

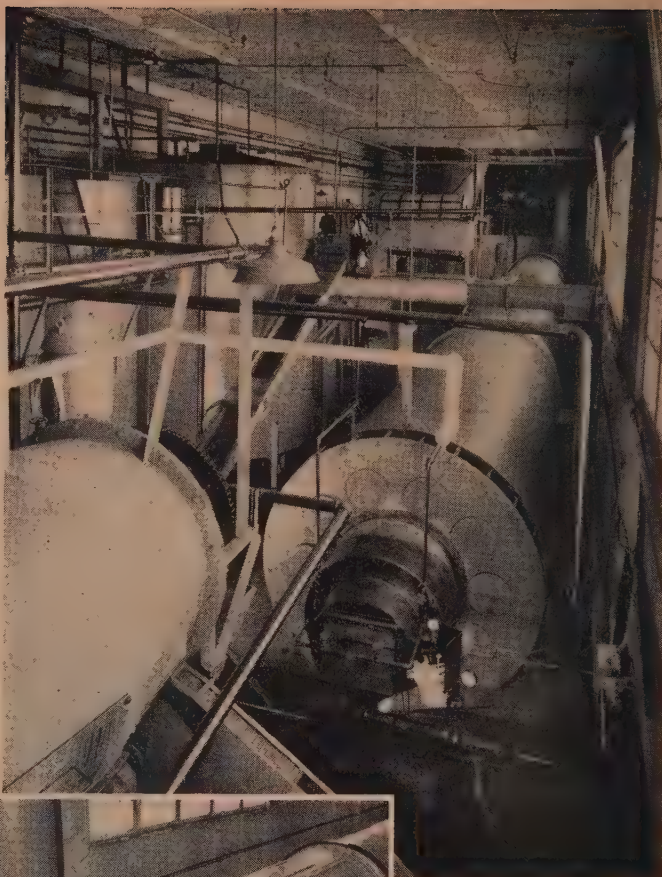
ANOTHER



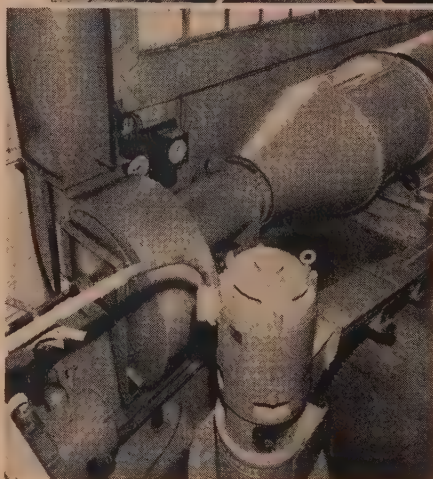
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By actual laboratory tests, *Standard's* low temperature drying increases protein values at least 2% and yield of meal 2½%. Particles never heated above 160° F.—no scorching—no burnt odors. *Write today* for full descriptive literature on low temperature drying and *Standard Fish Meal and Oil Plants, Fish Canneries, Component Parts. World-wide installation and service.*



(Above) *Standard Low Temperature Fish Meal Dryer* in operation at *Pan Pacific Fisheries, Inc., Terminal Island, California.*



(Left) Dryer discharge end. All fish meal is removed from dryer through the fan for additional drying while being air-conveyed to cyclone.

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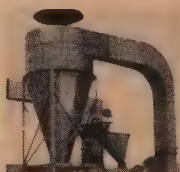
Retorts — quick closing doors



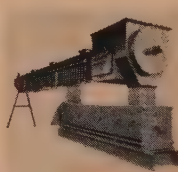
Conveyor type packing tables



Mills and disintegrators



Cyclones and sacking equipment

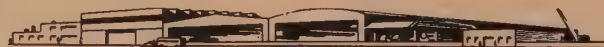


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Oil and Meal Yield Holds Gain

• Upward trend in fish oil and meal manufacture continued in 1955, with a third year of consistent recovery from the all-time low of 1952. The gain over 1954 was barely measure-

able, and indeed was manifest only in oil.

It reflected better conditions in the Alaska and British Columbia herring fisheries, and in the California sar-

dine production, although under current conditions the contribution of sardines to the coastal total of fish by-products cannot be based upon the tonnage of fish taken in California

1955 - Pacific Coast Fish Oil and Meal- 1955

Regions	Fish Meal, Tons	Herring Oil, Gallons	Sardine Oil, Gallons	Other Fish Oils, Gallons	Total Oil Gallons	Regions
ALASKA	4,480	1,031,134	...	10,855	1,041,989	ALASKA
BRITISH COLUMBIA	25,104	3,273,671	...	318,486	3,592,157	BRITISH COLUMBIA
WASHINGTON	3,200	...	...	138,000	138,000	WASHINGTON
OREGON	1,800	...	2,010,986	72,000	72,000	OREGON
CALIFORNIA	36,227	...	...	539,474	2,550,460	CALIFORNIA
TOTALS	70,811	4,304,805	2,010,986	1,078,815	7,394,606	TOTALS

Pacific Canned Pet Food Packed from Fish

(In standard cases equivalent to 48 lbs. each)								
Year	Alaska		California		Washington and Oregon		Pacific Totals	
	Cases	Value	Cases	Value	Cases	Value	Cases	Value
1949	75	\$450	896,489	\$4,222,300	*	*	896,564	\$4,222,750
1950	--	---	1,388,110	7,471,751	*	*	1,388,110	7,471,751
1951	35	263	1,192,428	6,340,527	**	**	1,192,463	6,340,790
1952	80	600	1,328,513	6,753,039	**	**	1,328,593	6,753,639
1953	50	375	1,091,815	5,778,955	34,400	\$133,300	1,126,265	5,912,630
1954	--	---	976,477	5,098,992	49,148	188,736	1,025,625	5,287,728

* Not available.

** Combined with California.

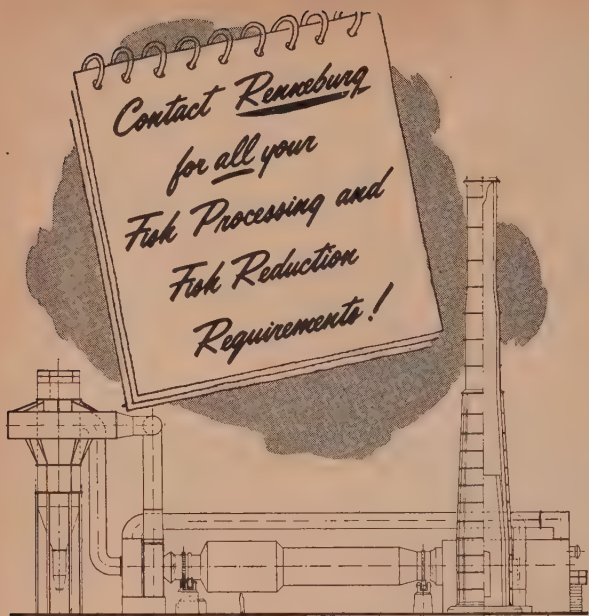
ALASKA FISH BY-PRODUCTS

(NOT INCLUDING VITAMIN OILS)

YEAR	SOUTHEAST ALASKA			PRINCE WILLIAM SOUND			KODIAK ISLAND AREA			ALL ALASKA		
	Number Active Plants	Fish Oils, Gallons	Fish Meal, Tons	Number Active Plants	Fish Oils, Gallons	Fish Meal, Tons	Number Active Plants	Fish Oils, Gallons	Fish Meal, Tons	Number Active Plants	Fish Oils, Gallons	Fish Meal, Tons
1955	*	*	*	*	*	*	*	*	*	4	1,041,989	4,480
1954	3	*	*	2	*	*	**1	...	...	6	876,570	3,069
1953	*	*	*	1	*	*	**2	*	*	5	576,845	2,401
1952	5	*	*	2	*	*	**2	*	*	9	803,467	4,590
1951	5	527,092	2,439	4	803,773	3,600	**5	109,000	632	14	1,439,865	6,671
1950	4	593,720	2,694	4	847,950	3,305	**4	1,581,514	7,695	12	3,033,184	13,694
1949	5	851,186	3,269	1	...	140	**3	16,900	199	9	686,086	3,608
1948	8	623,814	2,631	4	919,437	2,974	**7	1,959,378	7,078	19	3,501,631	12,483
1947	8	1,762,648	6,727	...	...	...	6	2,017,027	7,505	14	3,779,675	14,232
1946	5	1,359,409	6,860	2	453,962	2,066	4	1,731,536	6,942	11	3,544,907	15,868
1945	5	1,110,973	4,507	2	295,951	1,541	4	1,328,249	5,140	11	2,835,173	11,188
1944*	...	...	...	...	...	...	...	...	...	8	2,355,010	8,777
1943*	...	...	...	...	...	...	...	...	...	8	1,644,142	7,280
1942	1	60,000	700	1	62,518	270	2	770,000	2,570	4	892,518	3,540
1941	1	80,500	555	6	1,221,242	5,408	4	1,592,506	5,777	11	2,894,248	11,740
1940	1	40,000	450	6	1,290,857	4,720	3	808,822	2,973	11	2,139,679	8,143
1939	5	882,317	4,042	7	2,227,087	7,838	6	1,729,127	5,617	18	4,846,631	17,497
1938	6	951,109	4,489	6	2,403,797	8,847	4	1,224,273	3,637	16	4,593,579	16,973
1937	9	2,024,315	8,725	6	2,175,423	7,102	5	1,388,300	3,809	20	5,588,038	19,636
1936	6	1,421,470	6,487	6	1,426,323	5,546	5	975,344	3,018	17	3,823,137	15,051
1935*	...	...	...	...	...	...	...	...	...	19	3,653,243	15,818

*Data for separate areas of Alaska not available.

**Includes one on Cook Inlet.



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Built in a wide range of capacities . . . the DehydrO-Mat, though comparable in price, out-performs conventional dryers of similar size. Compact . . . easy to install in a



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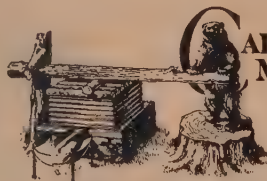


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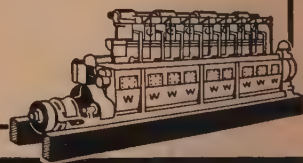
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DIESEL."



WASHINGTON DIESEL

PACIFIC NORTHWEST FISH BY-PRODUCTS

(Not Including Vitamin Oils)

YEAR	OREGON					WASHINGTON					YEAR
	# Active Plants	Fish Meal Tons	Sardine or Pilchard Oil, Gals.	Other Fish Oils, Gals.	Total Fish Oil, Gals.	# Active Plants	Fish Meal Tons	Sardine or Pilchard Oil, Gals.	Other Fish Oils, Gals.	Total Fish Oil, Gals.	
1955	1	1,800	...	72,000	72,000	4	3,200	...	138,000	138,000	1955
1954	1	1,519	...	51,380	51,380	4	5,635	...	244,343	244,343	1954
1953	2	1,607	...	53,000	53,000	4	2,690	...	169,000	169,000	1953
1952	2	744	...	19,000	19,000	4	2,217	...	138,140	138,140	1952
1951	2	1,150	...	24,000	24,000	4	2,047	...	132,638	132,638	1951
1950	3	1,260	...	23,085	23,085	5	1,032	...	110,960	110,960	1950
1949	3	...	...	26,700	26,700	5	1,754	...	111,868	111,868	1949
1948	4	1,228	114,928	...	114,928	9	3,269	...	210,923	210,923	1948
1947	4	2,040	228,558	17,626	246,184	8	4,548	44,375	201,863	246,238	1947
1946	3	1,633	120,336	13,391	133,727	10	3,730	186,690	154,733	341,423	1946
1945	3	907	...	26,000	26,000	7	3,542	78,558	158,958	237,516	1945
1944	2	1,200	...	50,000	50,000	5	901	960	64,500	65,460	1944
1943	3	1,365	32,000	26,000	58,000	6	2,901	277,627	78,000	355,627	1943
1942	2	861	25,014	8,200	33,214	6	2,003	27,787	168,600	196,387	1942
1941	4	2,969	398,235	...	398,235	11	4,168	400,102	152,389	552,491	1941
1940	5	592	114,717	...	114,717	11	1,451	35,656	145,174	180,830	1940
1939	6	3,933	833,300	...	833,300	8	4,026	672,066	103,500	775,566	1939
1938	6	2,933	718,830	...	718,830	10	4,986	1,153,339	74,392	1,227,731	1938
1937	5	2,775	689,159	...	689,159	6	3,886	808,396	125,400	933,797	1937
1936	9	2,864	481,512	70,985	552,497	4	1,710	193,467	82,800	276,267	1936
1935	7	4,763	1,104,389	39,985	1,144,374	2	1,032	...	110,960	110,960	1935

waters. With "open reduction" no longer being permitted, the oil and meal yield of the sardine fishery is greatly reduced per ton of fish taken.

Some reduction in tonnage of tuna processed in California was reflected in that state's yield of oil and meal, but close utilization of all available material, with a strengthened market, served to sustain production on levels comparable with the year previous.

• In Alaska the herring catch was surprisingly good and the two Southeast Alaska plants active found rather good yield.

Re-appearance of herring in apparently substantial volume in the vicinity of Kodiak Island was reported during the 1955 season, leading to the expectation that herring fishing operations in the Kodiak area would be resumed in the summer of 1956, after

a shut-down of several years by the utter disappearance of the fish.

• Fishery by-products for direct feeding to fur-bearing animals have become an increasingly important item in the Pacific Northwest, and have served to divert a large quantity of material from reduction plants to freezers.

General practice with respect to

FISH MEALS

FISH OILS

VITAMIN OILS

FROZEN FISH SCRAP

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BY-PRODUCTS

this material—usually consisting of trawl fish because of their relatively low oil content—is to bring the whole fish, or the offal after fillets have been cut, putting the ground material in multi-wall paper bags for freezing.

While state laws vary as to the utilization of whole foodfish for purposes other than food, fur animal feeding takes a substantial quantity of fish material along the entire Pacific Coast, particularly in Oregon.

In that state in 1955 fishing vessels were acquired by fur farmers associations for the specific purpose of providing them with bottomfish for fur animal feeding.

Demand for material for fur feeding favors relatively lean fish, preferably with a substantial percentage of bone, and with the viscera included.

- Fish meal imports during 1955 were reported as the lowest in the modern history of the business, running not much more than half as great as in 1954. Primarily responsible are the sharp reduction in imports from Peru, Norway and Angola, which together accounted for a reduction of at least 50,000 tons. Of the countries shipping fish meal to the United States, only Canada showed an increase in 1955.

Canadian Whaling

- Whaling operations were carried out on a fairly extensive scale in the North Pacific during the past year by the British Columbia Packers, Ltd., fleet operating out of the shore station at Coal Harbor in Quatsino Sound, Vancouver Island.

Production was virtually the same as in 1954, the total number of whales taken being 629, compared with the record of 630 established the previous year. Six killer boats were operated by the company, which was again the only organization maintaining a commercial whaling operation on this side of the North Pacific.

No extensive changes were made in the company's program during the past year, and the equipment setup remained pretty much as it has been for several seasons. In value, production of meat solubles, meal and liver oil was approximately equal the production of whale and sperm oil which, incidentally, increased fractionally in price. The sperm oil situation for the company was improved somewhat by

the fact that sperm whales accounted for about 50 percent of the season's catch, a larger percentage than usual.

The company continues to ship whale meat to fur farms in Canada and the U. S., and one by-product that has had an increasing sale is whale solubles-impregnated peat for nurseries and home gardens, but in volume this is a very small item.

The general layout of the Coal Harbor plant has not been changed materially since B. C. Packers took over Western Whaling Co., organized after World War II by Nelson Bros. Fisheries and the Gibson brothers in partnership with B. C. Packers, after the assets of the old Consolidated Whaling Corp. had been disposed of at auction.

Consolidated, which operated for many years out of Victoria, had been idle for several years and most of its vessels were dismantled and scrapped. Consolidated seldom killed more than 400 whales in a season, but of course its equipment was hardly comparable



**MEALS
OILS
SOLUBLES**

ALASKA TO MEXICO

R. S. Wilson Company

LOS ANGELES 15

21 YEARS IN THE FISH BUSINESS

PACIFIC COAST FISH REDUCTION PRODUCTS

Fish Oil
Fish Meal

(Gallons)						Year	(Tons)					
Alaska	Wash.	Oregon	Calif.	British Columbia	TOTAL		Alaska	Wash.	Oregon	Calif.	British Columbia	TOTAL
232,376	116,282	20,000	26,063	...	394,721	1916	1,594	...	100	535	...	2,229
231,142	205,511	26,000	176,293	49,784	686,730	1917	1,858	3,186	190	3,481	1,220	9,935
147,716	98,711	36,200	346,724	64,060	692,411	1918	600	1,885	95	8,734	1,977	13,291
170,340	90,921	25,000	514,262	65,945	866,468	1919	1,218	1,114	350	11,153	1,847	15,682
720,118	21,850	23,175	611,585	66,802	1,443,530	1920	3,928	352	136	8,856	466	13,738
99,948	170,008	48,000	336,738	53,640	708,334	1921	678	1,354	300	6,317	489	9,138
454,938	157,555	14,000	647,050	90,553	1,264,096	1922	1,958	1,216	40	9,027	911	13,152
915,143	135,145	24,000	951,888	196,381	2,242,557	1923	3,635	992	150	9,238	823	14,838
1,193,705	79,028	42,000	2,350,722	289,651	3,955,106	1924	5,560	607	275	15,328	1,709	23,479
2,391,832	97,890	47,400	3,150,041	1,020,607	6,707,770	1925	9,302	1,395	300	22,936	4,551	38,484
3,018,675	78,352	58,000	2,123,928	2,555,485	7,834,440	1926	12,093	822	325	15,767	10,543	39,550
2,067,041	81,801	65,000	2,618,490	3,863,347	8,695,679	1927	7,704	956	500	21,374	16,659	47,193
2,585,990	79,347	54,000	3,749,302	4,877,059	11,336,698	1928	10,713	670	425	28,390	15,331	55,529
3,415,154	131,059	62,000	6,548,126	4,066,584	14,222,923	1929	13,353	1,554	460	43,496	21,208	80,071
3,601,305	121,602	53,600	5,842,763	4,767,120	14,386,390	1930	12,847	1,046	400	36,276	17,542	68,111
2,207,686	128,769	36,000	3,924,692	3,485,287	9,782,434	1931	8,704	714	228	22,440	19,561	51,647
2,632,154	79,219	33,000	5,125,399	1,857,065	9,726,837	1932	10,168	757	143	27,500	15,450	54,018
3,195,294	111,098	33,500	10,708,448	935,582	14,983,922	1933	11,435	1,085	210	58,879	6,752	78,361
3,741,604	116,967	38,000	18,910,687	2,492,230	25,299,488	1934	14,341	876	280	95,193	12,654	123,344
3,853,243	110,960	1,144,374	20,695,423	2,644,214	28,448,214	1935	15,818	1,032	4,763	103,772	16,090	141,475
3,823,137	304,975	552,497	24,511,950	2,802,678	31,995,237	1936	15,051	1,687	2,864	126,143	21,948	167,693
5,588,038	942,548	689,159	14,823,508	3,942,576	25,985,829	1937	19,636	4,012	2,775	93,897	25,630	145,950
4,587,513	1,231,144	718,830	16,065,029	4,023,798	26,626,314	1938	17,066	4,977	2,933	97,451	21,006	143,433
4,837,288	830,480	833,300	18,980,527	2,068,779	27,550,384	1939	17,477	4,651	3,933	105,169	19,468	150,698
2,142,674	180,830	114,717	13,214,990	3,388,442	19,041,653	1940	8,144	1,528	592	86,137	31,899	128,300
2,894,248	552,491	398,235	17,677,198	3,304,657	24,290,751	1941	11,740	4,168	2,969	102,812	24,312	146,001
892,518	144,691	33,214	12,686,640	2,255,908	16,012,971	1942	3,540	1,608	861	79,003	26,474	111,486
1,644,142	586,102	58,000	14,016,179	3,738,818	20,043,241	1943	7,280	3,231	1,365	86,151	24,919	122,946
2,355,010	65,460	50,000	18,271,859	3,548,422	24,290,751	1944	8,777	901	1,200	96,853	20,852	128,583
2,835,173	221,218	26,000	12,062,111	2,875,323	18,019,825	1945	11,188	2,894	907	78,653	21,123	114,769
3,544,907	341,423	133,727	4,902,625	1,431,600	10,354,282	1946	15,869	3,826	1,633	52,895	10,561	84,784
3,779,675	200,801	246,184	2,633,604	1,778,327	8,415,449	1947	14,232	1,631	2,040	37,065	12,773	62,611
3,501,631	210,923	114,928	2,833,197	3,427,273	10,087,952	1948	12,683	3,269	1,228	44,450	31,087	92,717
668,086	207,000	26,700	6,725,255	2,880,219	10,507,260	1949	3,608	3,200	1,786	66,504	31,419	106,517
3,033,184	110,960	23,085	7,202,130	4,015,024	14,384,393	1950	13,694	1,032	1,260	70,769	34,174	120,929
1,439,865	164,000	24,000	2,735,590	4,087,136	8,450,591	1951	6,671	1,178	1,150	41,498	34,235	84,732
803,467	130,000	19,000	1,280,994	250,465	2,483,926	1952	4,590	897	744	37,149	4,764	48,144
500,713	169,000	53,000	814,221	3,823,436	5,360,370	1953	2,544	2,690	1,607	25,121	26,944	58,906
676,570	244,343	51,380	1,408,245	4,776,395	7,156,933	1954	3,069	5,635	1,519	30,278	31,143	71,644
1,041,989	138,000	72,000	2,550,460	3,592,157	7,394,606	1955	4,480	3,200	1,800	36,227	25,104	70,811

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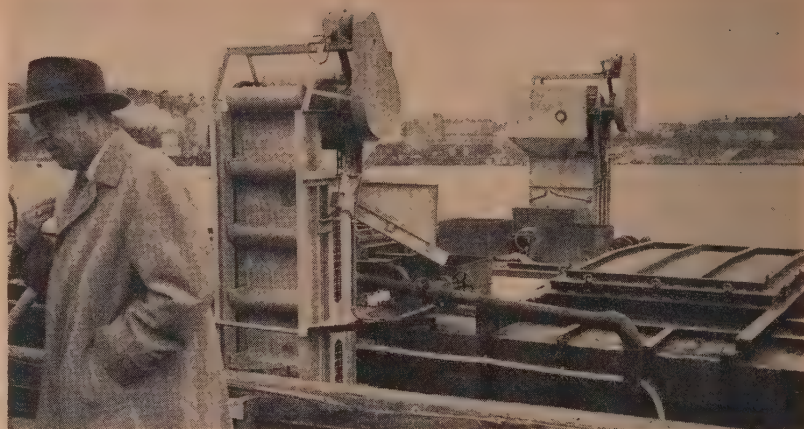
Alaska Herring Outlook For 1956 Season

• Entering the 1956 year it was apparent that there would be some increase in Alaska herring reduction operations during that season. Mention has already been made of the probability that there would be a re-opening of some of the Kodiak Island district reduction stations.

On Prince William Sound it is also considered probable that there will be further activity.

In Southeast Alaska the prospect is for a more active operation than in some little time. The operators there asked the Fish and Wildlife Service for a quota of 25,000 tons of fish.

The salmon trollers, who actively



Brine-Refrigerated Tenders are among the notable recent developments in the salmon canning business. Tenders with tanks of ice-cold brine receive salmon from the fishing vessels and hold them in the chilled seawater until they are delivered to the canneries in prime condition.

oppose reduction, on the other hand proposed a five-year closure of herring fishing in the Southeastern portion of the territory. Failing that, they wanted stringent protection for the herring population which frequents Shelikof Bay during the fishing season.

This bay, lying just above Cape Edgecomb, northwest of Sitka Sound, in recent years has been the most productive single herring fishing area in the region.

At the same time, this general area is important to the salmon trollers, and they have bitterly resented appearance of the herring seiners in the Shelikof Bay fishery.

The matter was subject of controversy for months, but at presstime it appeared altogether probable that the United States Fish and Wildlife Service would provide strict limitation on the Sitka Sound spawning population of herring.

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BRITISH COLUMBIA HERRING PRODUCTION

Year	Fish Landed Tons	CANNED HERRING				Fresh and Bait Tons	Herring Meal Tons	Herring Oil (Imperial) Gallons
		1-lb. Tails	1-lb. Ovals	1/2-lb. Ovals	Total Full Cases			
1955 Spring Season	58,882	...	...	...	...	867	11,587	1,040,608
1955 Fall Season	94,776	...	...	...	...	112	15,923	1,930,248
1955 Grand Total	153,658	...	...	...	...	979	27,510	2,970,856
1954 Spring Season	67,045	...	...	...	...	1,195	12,478	442,747
1954 Fall Season	111,237	...	...	...	6,470	152	17,344	2,622,103
1954 Grand Total	178,282	...	...	...	6,470	1,347	29,822	3,064,850
1953 Spring Season	12,011	...	...	...	10,230	51	1,790	363,200
1953 Fall Season	132,576	...	...	...	75,312	452	21,937	2,608,399
1953 Grand Total	144,587	...	...	...	85,542	503	23,727	2,971,599
1952 Spring Season	90,236	...	...	...	2,764	1,764	16,221	1,428,206
1952 Fall Season	...	...	...	...	...	...	...	...
1952 Grand Total	90,236	...	...	...	2,764	1,764	16,221	1,428,206
1951 Spring Season	72,925	...	...	...	116,674	23,820	13,388	949,801
1951 Fall Season	107,103	...	...	...	102,536	32,340	17,059	2,320,994
1951 Grand Total	180,028	...	...	...	219,210	56,160	31,447	3,270,795
1950 Spring Season	74,621.00	...	...	...	2,475	150.34	14,604.35	988,372
1950 Fall Season	114,258.00	...	...	...	61,152	605.64	17,961.08	2,308,736
1950 Grand Total	188,879.00	...	...	...	63,627	755.98	32,565.43	3,297,108
1949 Spring Season	76,546.62	2,613	...	...	2,613	2,103.35	13,361.50	548,432
1949 Fall Season	106,259.00	1,000	74,162	225	75,387	1,051.48	16,075.10	2,317,113
1949 Grand Total	182,805.62	3,613	74,162	225	78,000	3,154.83	29,436.60	2,865,545
1948 Spring Season	87,915.01	79,128	215,050	21,829	315,007	1,589.56	12,757.87	751,064
1948 Fall Season	112,705.18	...	...	...	90,202*	554.75	18,244.07	2,019,508
1948 Grand Total	200,620.19	79,128	215,050	21,829	405,209	2,144.31	31,001.94	2,770,572
1947 Spring Season	42,006.34	250,595	176,203	4,125	430,923	3,183.05	4,109.20	200,581
1947 Fall Season	77,412.98	219,635	698,786	10,748	929,719	1,045.25	7,212.09	1,092,057
1947 Grand Total	119,419.32	470,230	874,989	14,873	1,360,642	4,228.30	11,321.29	1,292,638
1946 Spring Season	29,376.48	71,537	61,290	21,975	154,802	3,304.71	3,437.30	251,838
1946 Fall Season	67,691.61	80,281	886,889	40,802½	1,007,972½	5,718.73	4,364.25	644,777
1946 Grand Total	97,068.09	151,818	948,179	62,777½	1,162,774½	9,023.44	7,801.55	896,615
1945 Spring Season	61,906.03	80,001	127,202	55,418	262,621	3,558.05	8,350.96	490,214
1945 Fall Season	70,193.36	67,296	1,056,310	30,290	1,153,896	1,131.10	4,420.45	610,643
1945 Grand Total	132,099.39	147,297	1,183,512	85,708	1,416,517	4,689.15	12,771.41	1,100,857

*Sizes of cans not designated.

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HAVE LOW MAINTENANCE COSTS
ENSURE LOW DEPRECIATION COSTS
PROVIDE SAFE AND ECONOMICAL INSURANCE FOR THE SHIP'S ELECTRICAL SYSTEM

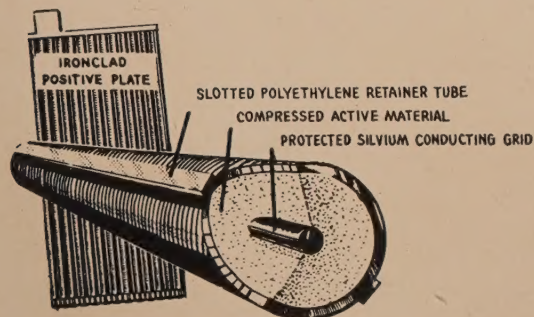
NEW, EXCLUSIVE EXIDE-IRONCLAD FEATURES

New Alloys—Silvium®, the latest development in grid alloys, prevents wear of the positive grid spines... assures higher sustained power for longer, useful working life.

New Plastics—non-oxidizing polyethylene tubes improve battery performance and provide greater capacity in the same space.

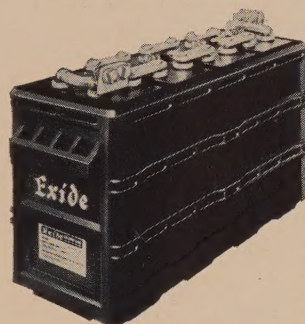
Unique Positive Plates—the unique polyethylene slotted tubes inside an ironclad keep active material in firm contact with the Silvium conducting grids of the positive plates... this grid protection lengthens the life of the battery. Slotted tubes expose more active material to the electrolyte... for greater power. Fine tube slots hold material in contact with grid longer. Result: The Ironclad marine battery's ability to furnish dependable power for a longer time—at lowest cost.

Other features include improved negative plates, new sealing compound, shock-proof molded container, unbreakable plastic vent plugs.

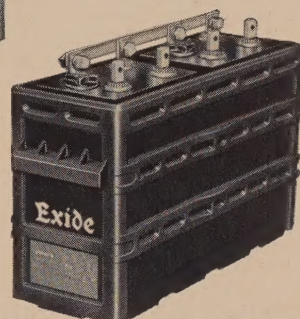


Exclusive, rugged construction of power tubes used in Ironclad positive plates results in longer battery life.

A FEW OF MANY EXIDE-IRONCLAD TYPES



Type 4-MV-25D

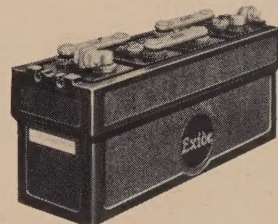


Type 2-EH-35

A FULL LINE of 32 and 110 volt Exide-Ironclad batteries, designed for dependable heavy duty service, is available. Capacities range from 57 to 1320 ampere hours. Write for specification sheets.

ULTRA START®—LX

To get dependable, long-lasting battery performance aboard smaller boats, use the Exide **ULTRA START®**—



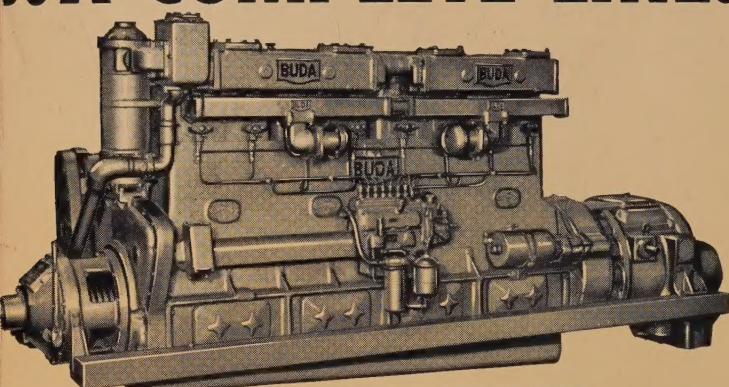
- It provides extra power for easy handling of the heavy starting load of marine engines.
- It retains its charge better... stays "healthier"... during periods of idleness.
- It withstands the damaging effects of over-charging.

For complete information, call your nearest Exide Sales Engineer.

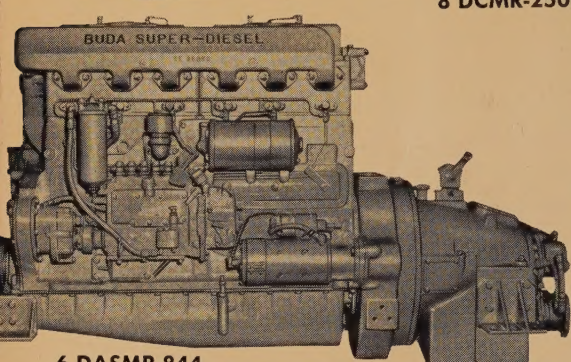
ATLANTA, GA.	1246 Allene Ave., S.W.
BOSTON 34, MASS.	100 Ashford Street
CHICAGO 9, ILL.	5335 S. Western Blvd.
CLEVELAND 14, OHIO	1014 Engineers Bldg.
DALLAS 1, TEXAS	2133 McKinney Avenue
DENVER 2, COLO.	810 14th Street
DETROIT 4, MICH.	8051 W. Chicago Blvd.
KANSAS CITY 23, MO.	129 Belmont Blvd.
LOS ANGELES 15, CALIF.	1043 S. Grand Avenue
MINNEAPOLIS 3, MINN.	1750 Hennepin Avenue
NEW ORLEANS 12, LA.	406 Civic Center Bldg.
NEW YORK 36, N. Y.	25 West 43rd Street
PHILADELPHIA 4, PA.	101 N. 33rd Street
PITTSBURGH 16, PA.	1608 Potomac Avenue
ST. LOUIS 3, MO.	1218 Olive Street
SAN FRANCISCO 24, CALIF.	6150 Third Street
SEATTLE 4, WASH.	1919 Smith Tower Bldg.
WASHINGTON 6, D.C.	1819 "L" Street, N.W.

ALLIS-CHALMERS MARINE DIESELS

...A COMPLETE LINE...



8 DCMR-2505



6 DASMR-844

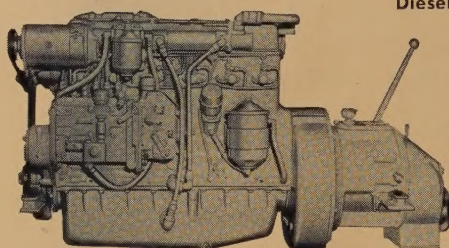
**DEPENDABLE POWER
FOR EVERY NEED**



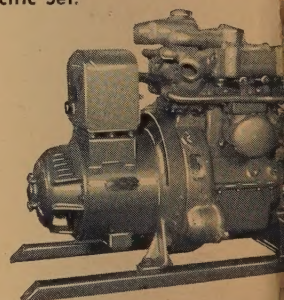
Install a powerful, rugged Allis-Chalmers Marine Diesel in your boat and get the same money-making economy and dependability that make Allis-Chalmers Marine Diesels the first choice of owners and operators all over the world. Remember — fast, easy starting, smooth, quiet, trouble-free operation and maximum fuel economy are guaranteed when an Allis-Chalmers Diesel powers your boat. Your nearby Allis-Chalmers Marine distributor will be glad to show you how Allis-Chalmers diesels can increase your profits the first day they go to work for you. Write for full details and the name of your distributor.

ALLIS-CHALMERS, BUDA DIVISION, MILWAUKEE 1, WISCONSIN

Allis-Chalmers auxiliary generator sets in sizes from 2½ to 300 KW. 9½ KW. Diesel Electric Set.



6 DAMR-273



MODEL	NO. CYL.	BORE & STROKE	CU. IN. DISPL.	TUGS, FISH BOATS, COMMERCIAL CRAFT	MAX HP @ RPM
2-BDMR-77	2	3-7/16 x 4 1/8	77	15 @ 1800	17 @ 2000
4-BDMR-153	4	3-7/16 x 4 1/8	153	32 @ 2000	40 @ 2400
4-BDMR-182	4	3 3/4 x 4 1/8	182	39 @ 2000	47 @ 2400
6-BDMR-230	6	3-7/16 x 4 1/8	230	48 @ 2000	60 @ 2400
6-DAMR-273	6	3 3/4 x 4 1/8	273	74 @ 2400	85 @ 2800
6-DTMR-317	6	3 5/8 x 5 1/8	317	72 @ 2000	90 @ 2400
6-DTMR-468	6	4 1/4 x 5 1/2	468	92 @ 1800	114 @ 2000
6-DAMR-779	6	5 1/4 x 6	779	148 @ 1800	185 @ 2000
6-DAMR-844	6	5 1/4 x 6 1/2	844	165 @ 1800	215 @ 2000
6-DASMR-844*	6	5 1/4 x 6 1/2	844	196 @ 1800	275 @ 2000
8-DAMR-1125	8	5 1/4 x 6 1/2	1125	206 @ 1800	285 @ 2000
8-DASMR-1125*	8	5 1/4 x 6 1/2	1125	242 @ 1800	340 @ 2000
8-DATMR-1125	8	5 1/4 x 6 1/2	1125	300 @ 1800	385 @ 2000
6-DCMR-1879	6	6 3/4 x 8 3/4	1879	300 @ 1800	262 @ 1300
6-DCSMR-1879*	6	6 3/4 x 8 3/4	1879	265 @ 1200	340 @ 1300
6-DCMR-2505	8	6 3/4 x 8 3/4	2505	296 @ 1200	388 @ 1300
8-DCSMR-2505*	8	6 3/4 x 8 3/4	2505	400 @ 1200	516 @ 1300

* Supercharged

ALLIS-CHALMERS

